CELVIANO

AP-650M

USER'S GUIDE GUÍA DEL USUARIO

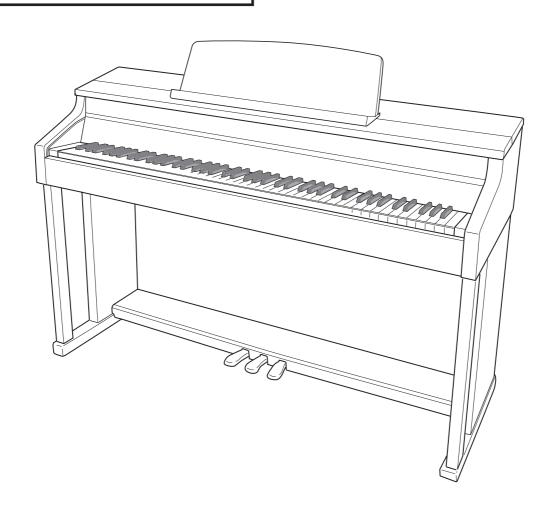
Please keep all information for future reference. Guarde toda información para tener como referencia futura.

Safety Precautions

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

Precauciones de seguridad

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



IMPORTANT SAFETY INSTRUCTIONS

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. 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.

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.

Declaration of Conformity

Model Number: AP-650M

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.

Important!

Please note the following important information before using this product.

- Before using the AD-E24500LW Adaptor to power the unit, 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 CASIO AD-E24500LW adaptor.
- The AC adaptor is not a toy.
- Be sure to disconnect the AC adaptor before cleaning the product.

Declaration of Conformity According to EU Directive



This mark applies in EU countries only.

Manufacturer: CASIO COMF 6-2. Hon-mac

CASIO COMPUTER CO., LTD.

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

Responsible within the European Union: CASIO EUROPE GmbH

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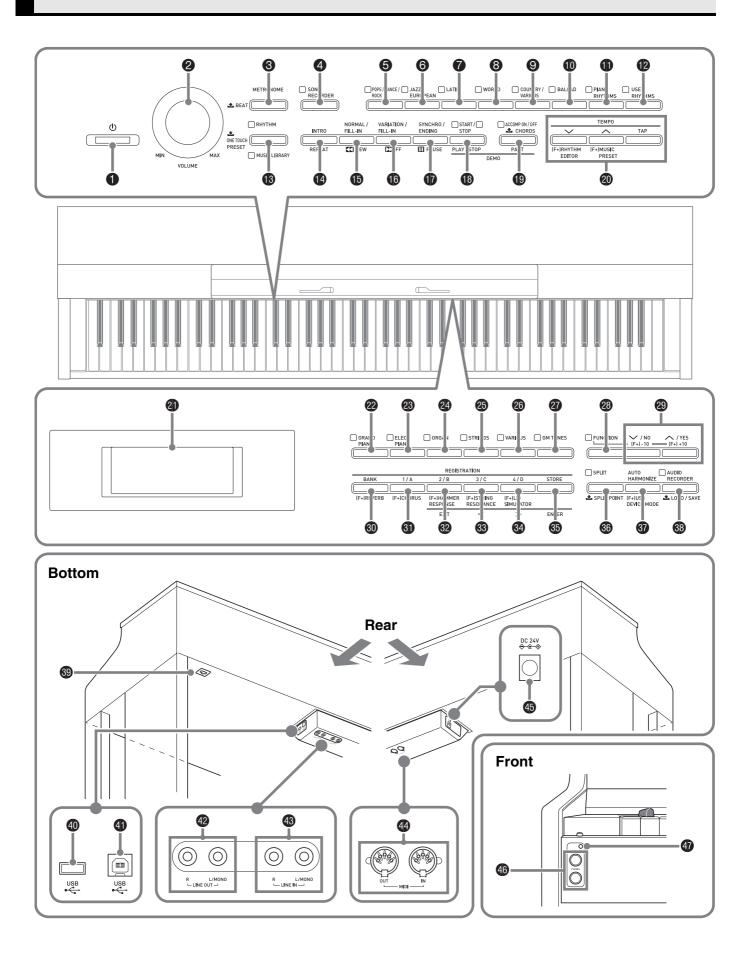
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MIDI Implementation Chart

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General Guide



- This manual uses the numbers and names below to refer to buttons and controllers.
- 1 (POWER) button
- **2 VOLUME** controller
- **METRONOME** button
- **4 SONG RECORDER** button
- **6 POPS/DANCE/ROCK** button
- **JAZZ/EUROPEAN** button
- **ATIN** button
- WORLD button
- COUNTRY/VARIOUS button
- **(1)** BALLAD button
- **@ PIANO RHYTHMS** button
- **@ USER RHYTHMS** button
- ® RHYTHM, MUSIC LIBRARY button
- (1) INTRO, REPEAT button
- **(b)** NORMAL/FILL-IN, ◀◀REW button
- **(b)** VARIATION/FILL-IN, ▶▶FF button
- **SYNCHRO/ENDING, PAUSE** button
- **(B)** START/STOP, PLAY/STOP button
- **(D)** ACCOMP ON/OFF, PART button
- TEMPO, RHYTHM EDITOR, MUSIC PRESET buttons
- Display
- @ GRAND PIANO button
- ELEC PIANO button
- ORGAN button

- STRINGS button
- VARIOUS button
- @ GM TONES button
- FUNCTION button
- ❷
 ✓/NO,
 ✓/YES buttons
- **30 BANK, REVERB** button
- **3 REGISTRATION 1/A, CHORUS** button
- REGISTRATION 2/B, HAMMER RESPONSE, EXIT button
- REGISTRATION 3/C, STRING RESONANCE, button
- **STORE, ENTER** button
- **® SPLIT, SPLIT POINT** button
- **AUTO HARMONIZE, USB DEVICE MODE** button
- **3 AUDIO RECORDER, LOAD/SAVE** button
- Pedal connector
- **40 USB** flash drive port
- 4 USB port
- **Q** LINE OUT R, L/MONO jacks
- 43 LINE IN R, L/MONO jacks
- **MIDI OUT/IN** terminals
- 45 DC 24V terminal
- **49 PHONES** jacks
- Power lamp

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-44) and "Panel Lock" (page E-44).

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.
- 2. While holding down both the (GM TONES) and (FUNCTION) buttons, press the (U) 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.



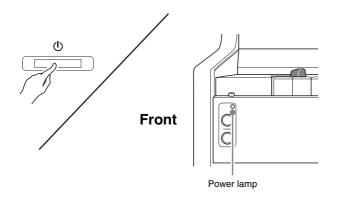
• See "Turning Power On or Off" (page E-5) for information about turning power on and off.

Power Outlet

After you finish assembling the stand, turn on the digital piano. For details, see "Getting Ready" on page E-56.

Turning Power On or Off

1 Press the **①** (也) button to turn on Digital Piano power.



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



- Use the Digital Piano's **VOLUME** controller (**②**) to adjust the volume.
- 3. To turn off the Digital Piano, hold down the (也) button until the power lamp goes out.

NOTE

• Pressing the ① (①) button to turn off power actually puts the Digital Piano into a standby state. Minute amounts of current continue to flow within the Digital Piano in the standby state. If you do not plan to use the Digital Piano for a long time or if there is a lightning storm in your area, be sure to unplug the AC adaptor from the power outlet.

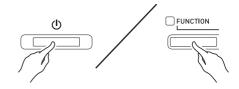
Auto Power Off

This Digital Piano is designed to turn off automatically to avoid wasting power after no operation is performed for a preset amount of time. The Auto Power Off trigger time is about four hours.

• You also can use the procedure below to temporarily suspend Auto Power Off.

■ To disable Auto Power Off

- While the Digital Piano is turned on, press the(也) button to turn it off.
- 2. While holding down the ② (FUNCTION) button, press the ① (也) button to turn on the Digital Piano.

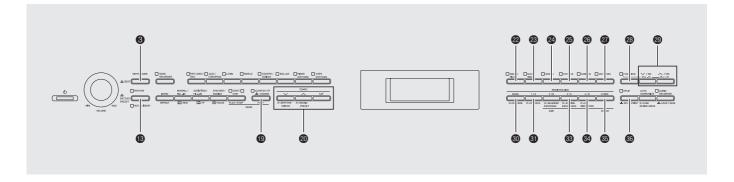


• Auto Power Off will be disabled at this time.

NOTE

• Turning off the Digital Piano after performing the above steps will re-enable Auto Power Off.

Using Built-in Tones



Selecting a Tone

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

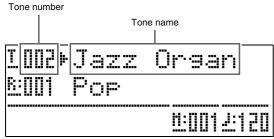
- For more information, see the "Tone List" (page A-1).
- The Digital Piano has built-in demonstration tunes that highlight the different characteristics of tones. For more information, see "Playing Tone Demo Songs" (page E-21).
- 1. Use the "Tone List" (page A-1) to look up the group and the number of the tone you want to select.
- 2. Use the ② to ③ (tone groups) buttons to select the group you want.

Example: To select the ORGAN group



3. Use the **②** (∨, ∧) 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-41 for more information about scrolling.

Layering Two Tones

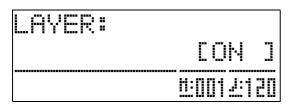
You can layer two different tones so they play at the same time when you press a keyboard key.

- 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 GRAND PIANO MELLOW in the GRAND PIANO group, press the ❷ (GRAND PIANO) button and then use the ❷ (✓, △) buttons to select "006 GRAND PIANO MELLOW".

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.



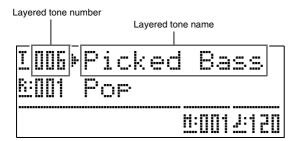
The button you held down in step 2 will light to indicate that it is selected.

Example: When VARIOUS group is selected



3. Use the ((\(\sigma\), (\(\sigma\)) 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.

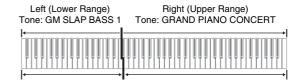


• You can adjust the balance between the main tone and layered tone. For details, see "Layered Tone Volume (Layer Balance)" (page E-42).

Splitting the Keyboard between Two Tones

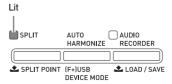
You can split the keyboard so the left side (lower range) plays one tone and the right side (upper range) plays a different tone.

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



1. Press the 69 (SPLIT) button.

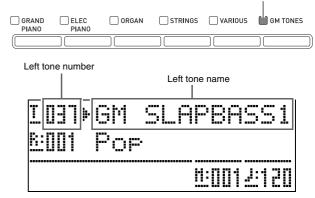
This causes the SPLIT lamp to light, indicating that the keyboard is split between two tones.



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 GM TONES group, press the (GM TONES) button and then use the (Y, ^) buttons to select "037 GM SLAP BASS 1".

Lit



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

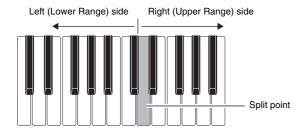
The SPLIT lamp will go out, indicating that the keyboard is no longer split.



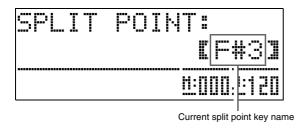
• If the keyboard is set up with layered tones (page E-6) when you perform the above split operation, the layered tones will play on the right (upper range) side of the keyboard.

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".



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



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

This specifies the split point.

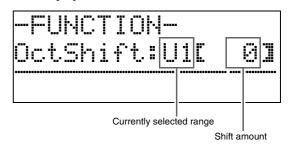
3. Press the 69 (SPLIT) button.

This exits the split point screen.

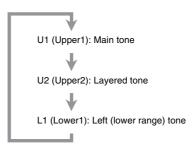
Using Octave Shift

After you split the keyboard (page E-7), 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 (FUNCTION) button, press the (GRAND PIANO) 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 **(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.



• Octave shift also can be performed as described for "Octave Shift" (page E-42).

Adjusting the Brilliance of a Tone

🚺 🛮 Press the 🚳 (FUNCTION) button.

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



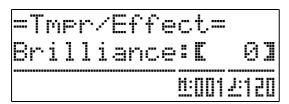
2. Use the ((>) and ((<)) buttons to select the Tmpr/Effect screen.



3. Press the 69 (ENTER) button.

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

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



- 5. Use the ② (✓, △) buttons to adjust the brilliance of the currently selected tone. You can adjust brilliance in the range of –3 to 0 to 3.
 - ➤: 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.

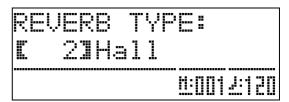
NOTE

• See "Other Settings" (page E-41) for details about using the (FUNCTION) button.

Adding Reverb to the Tone

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

This will display a reverb type selection screen.



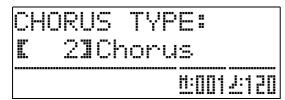
- 2. Use the ((\(\sigma\), (\sigma\)) buttons to select the reverb type you want.
 - The following shows the five available reverb type settings.
 - 0: OFF (no reverb)
 - 1: Room
 - 2: Hall
 - 3: Large Hall
 - 4: Stadium
- 3. Press the **(FUNCTION)** button.

This exits the reverb type selection screen.

Adding the Chorus Effect to the Tone

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

This will display a chorus type selection screen.



- 2. Use the **②** (**∨**, **∧**) buttons to select the chorus type you want.
 - The following shows the five available chorus type settings.
 - 0: OFF (no chorus)
 - 1: Light Chorus
 - 2: Chorus
 - 3: Deep Chorus
 - 4: Flanger
- 3. Press the @ (FUNCTION) button.

This exits the chorus type selection screen.

Adjusting Acoustic Piano Sound Characteristics

The tones of your digital piano have built-in elements that give them the characteristic reverberation of an acoustic piano. Each of these elements can be individually adjusted to one of four levels.

• HAMMER RESPONSE

Controls the time deviation between when a key is pressed and when the note actually sounds.

Settings

1: Fast 2: Grand piano feel 3: Slightly slower 4: Slow

STRING RESONANCE

Adjusts the characteristic reverberation (string resonance) of an acoustic piano.

You can select a reverberation setting that matches the song being played or your own personal preference.

Settings

- 1: Suppressed 2: Slightly suppressed
- 3: Reverberation 4: Strong reverberation

• LID SIMULATOR

Adjusts how sound resonates in accordance with the opening state of a grand piano lid.

Settings

1: Lid closed 2: Lid opened slightly 3: Lid fully open 4: Lid removed

NOTE

- Opening or closing the digital piano's lid does not affect the LID SIMULATOR setting.
- 1. While holding down the (FUNCTION) button, press the button that corresponds to the element whose setting you want to change.



- 2. Use the ((\(\sigma\), (\sigma\)) buttons to select the settings type you want.
- **3.** Press the **(FUNCTION)** button. This exits the element type selection screen.

NOTE

• In addition to the above, piano tones also have a KEY OFF SIMULATOR.

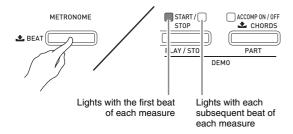
• KEY OFF SIMULATOR

Causes notes to decay when keyboard keys are released.

Using the Metronome

1 Press the 3 (METRONOME) button.

This will start the metronome.



Press the (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 **(a)** (METRONOME) button until the number of beats per measure screen shown below appears on the display.



- 2. Use the **②** (**∨**, **∧**) buttons to select the beats per measure value you want.
- **3.** Press the **3** (METRONOME) button to exit the number of beats per measure screen.

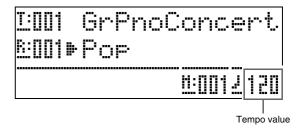
Changing the Tempo Setting

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

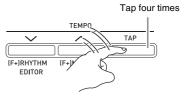
- 1 Use the (TEMPO, ,) buttons to adjust the tempo setting.

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
- 1 Tap the **(TEMPO, TAP)** 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 ② (TEMPO, 🍑, ^) 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.



- 3. Press the @ (FUNCTION) button.

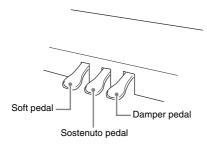
This will exit the metronome volume screen and cause the FUNCTION lamp to go out.



 You also can use the procedure under "Metronome Volume" (page E-42) to adjust the metronome volume.

Using the Digital Piano's Pedals

Your Digital Piano comes equipped with three pedals: damper, soft, and sostenuto.



Pedal Functions

Damper Pedal

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

 When a GRAND PIANO tone (CONCERT, MODERN, CLASSIC, MELLOW, BRIGHT) is selected as the tone, pressing this pedal will cause notes to reverberate (Damper Resonance) just like the damper pedal on an acoustic grand piano. Halfpedal operation (pressing the pedal part way) is also supported.

Soft Pedal

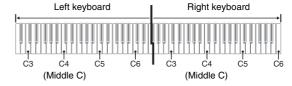
Pressing this pedal while playing suppresses notes played on the keyboard after the pedal was pressed, and makes them sound softer.

Sostenuto Pedal

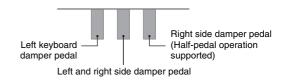
Only the notes of the keys that are depressed when this pedal is pressed are sustained until the pedal is released.

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



Configuring the Digital Piano for Duet Play

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



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 (A) button to turn on the Duet Mode.

This will cause the **39** (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 6 (SPLIT) button so the SPLIT lamp goes out.

NOTE

• You also can use the procedure under "Duet Mode" (page E-42) 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.

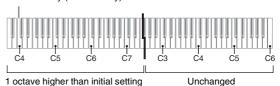
1. While holding down the (FUNCTION) button, press the (SPLIT) button.

This displays the Duet Mode on/off screen shown in step 2 under "Configuring the Digital Piano for Duet Play" (page E-13). 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 **②** (FUNCTION) button.

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

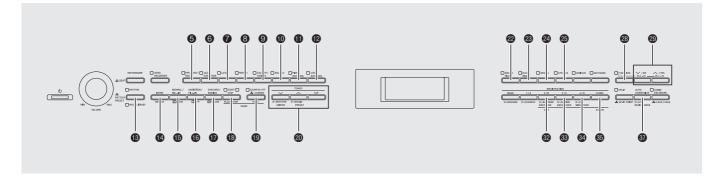
The left and right keyboards will be configured

The left and right keyboards will be configuraccording 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 seven groups. You can edit built-in rhythms to create your own original rhythms (called "user rhythms"), which you can save in a eighth group. For more information, see the "Rhythm List" (page A-5).

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 MUSIC LIBRARY lamps.



2. Use the "Rhythm List" (page A-5) to look up the group and the number of the rhythm you want to select.

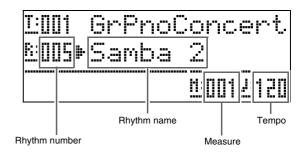
3. Use the 6 to 12 (rhythm groups) buttons to select the group you want.

Example: When the LATIN group is selected



4■ Use the **②** (**∨**, **∧**) buttons to select the rhythm you want.

Example: When "005 Samba 2" is selected



- 5 Use the **②** (TEMPO, ∨, ∧) buttons to adjust the tempo setting.
 - This is the same as metronome tempo adjustment (page E-11).

6. Press the (accomp on/off) button so its lamp is lit.

This turns ACCOMP on, so all accompaniment parts sound.

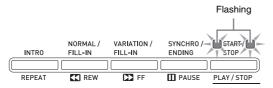
- Turning ACCOMP off so the ACCOMP lamp is unlit causes only the percussion instrument parts to sound.
- Each press of the (ACCOMP ON/OFF) button toggles ACCOMP on and off.



7. Press the **(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 (INTRO) button while Auto Accompaniment is in synchro standby will enter intro standby. Pressing the (VARIATION) button will enter variation standby. For details about intro and variation patterns, see "Modifying Auto Accompaniment Patterns" (page E-17).

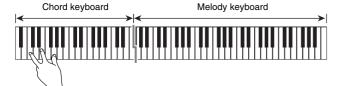


8. Play the chord you want on the chord keyboard (left keyboard keys).

Auto Accompaniment will start playing when you play the chord.

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

Example: To play a C chord



- **9.** 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 **(VARIATION)** buttons to modify accompaniment patterns. For details, see "Modifying Auto Accompaniment Patterns" (page E-17).
- 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-17).

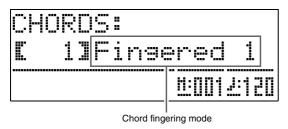


- You can use the following procedure to adjust the volume level of the Auto Accompaniment, without affecting the volume of Digital Piano output. For details, see "Auto Accompaniment Volume" (page E-42).
- You can change the size of the chord keyboard by using the split feature to move the split point (page E-8). 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 ((\(\sigma\), (\sigma\)) 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-10).



- 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.

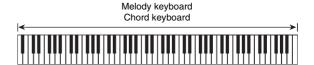


Chord Type	Example
Major Chords Press one key, whose note corresponds to the chord name. • To play C Major, press any C key in the chord keyboard. The octave of the note does not matter.	C (C Major) Note name
Minor Chords Press the chord keyboard key that corresponds to the major chord, while also pressing 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.

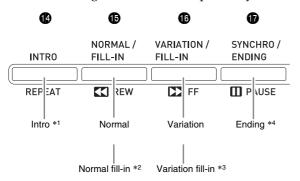
■ FULL RANGE CHORD

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-10).



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 (4) through (7) 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 (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.

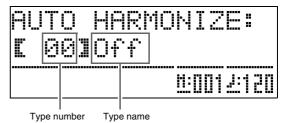


• One-Touch Presets are not supported for user rhythms (001 through 010 of the USER RHYTHMS group).

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 (AUTO HARMONIZE) button.



2. Use the **②** (**∨**, **∧**) 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.

- 3. Press the **(auto Harmonize)** button.
 - This will exit the auto harmonize screen.
- **4.** 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-17) 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 (FUNCTION) and (RHYTHM EDITOR) buttons.

This displays the rhythm editor screen.

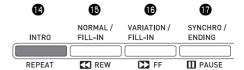


3. Use the accompaniment pattern buttons (12) through 10) to select the pattern (normal, intro, ending, etc.) you want to edit.

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

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

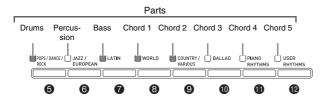
Example: When intro is selected



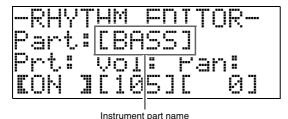
Use the instrument part buttons (through to select the part (drums, bass etc.) you want to edit.

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 (**6** through **1**). Button illumination indicates whether there is accompaniment data corresponding to each part.



Example: When bass is selected



5. Edit the selected part as desired.

The table below describes the parameters you can edit.

- Use the ③ (<) and ④ (>) buttons to select a parameter, and the ④ (
 You also can use shortcut buttons (see table below) to select parameters.
- Pressing the (, ^) 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-20.

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	3 3
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	ॐ
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-9) applied to the part notes.	000 to 127	2 3
Chorus: Chorus	Controls the level of the chorus effect (page E-10) 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/DANCE/ROCK). See the "Tone List" (page A-1) and "Rhythm List" (page A-5) 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.

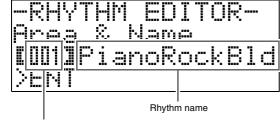
This causes a confirmation message to appear asking if you want to save your edits.



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 ❸ (<) and ❹ (>) buttons to move the cursor to the user rhythm number and rhythm name character you want to change. Use the ❷ (∨, ∧) 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 ②
 (✓ and △) buttons at the same time.

!	"	#	\$	%	&	'	()	
*	+	,	-		/	0	1	2	3
4	5	6	7	8	9	:	;	>	=
>	?	@	Α	В	С	D	Е	F	G
Н		J	Κ	L	М	Ν	0	П	Q
R	S	Т	U	V	W	Χ	Υ	Ζ	[
¥]	٨	_	`	а	b	С	d	Ф
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.

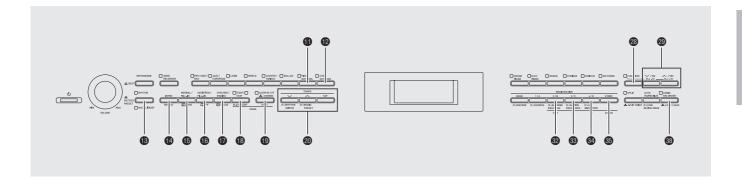
MPORTANT!

 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 Back Built-in Songs



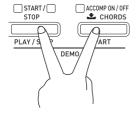
Playing Tone Demo Songs

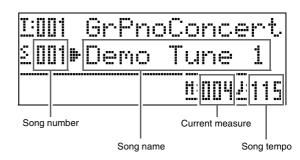
Your Digital Piano comes with six built-in demo tunes, which demonstrate the characteristics of each of the six tone groups.

No.	Io. Tone Group Name Tune Name	
001	GRAND PIANO	Piano Concert No.1 Op.23 1st Mov. (P.I.Tchaikovsky)
002	ELEC PIANO	Original
003	ORGAN	Original
004	STRINGS	Nessun Dorma [Turandot]
005	VARIOUS	Original
006	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 (② through ③) 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 ③ (➤, △) buttons.

2. Press the (B (PLAY/STOP) button.

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



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

Playing Back a Specific Music Library Song

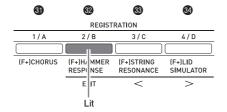
You can use the procedure below to select a Music Library song for listening or practice.

- 1 Press the ((MUSIC LIBRARY) button so its lamp is lit.
 - Each press of the button toggles between the upper and lower lamps.



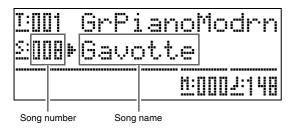
- 2. In the "Song List" (page A-9), find the group and group number of the song you want.
 - User songs are in Group D.
- 3. Use the **(3)** to **(2)** (Song group A to D) buttons to select the group you want.
 - Press button (Group D) if you want to select a user song.

Example: When Group B is selected



4 Use the **②** (**∨**, **∧**) buttons to select the song you want.

Example: When "008 Gavotte" is selected

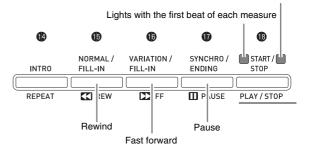


5. Press the (PLAY/STOP) button.

This starts playback of the song.

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

Lights with each subsequent beat of each measure



6. Press the (B (PLAY/STOP) button again.

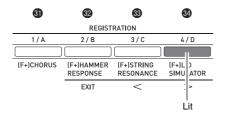
This stops song playback.

• 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-43).

Listening to Songs Loaded from an External Source

You can import song data from a commercially available USB flash drive or computer as a user song, and use it for Auto Accompaniment or for practice.

- 1 Load the song data you want to listen to one of the Digital Piano's user songs.
 - See "Loading Data from a USB Flash Drive to Digital Piano Memory" (page E-48) and "Connecting to a Computer" (page E-52) for details about how to load data.
 - You also can play back data directly from a USB flash drive without importing it into Digital Piano memory. For details, see "Playing Back a Song on a USB Flash Drive" (page E-50).
- 2. Press the button 49 to select Group D.

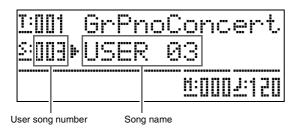


- 3. Press the (MUSIC LIBRARY) button so its lamp is lit.
 - Each press of the button toggles between the upper and lower lamps.



4 Use the **②** (**∨**, **∧**) buttons to select the user song you want.

Example: When user song 003 is selected

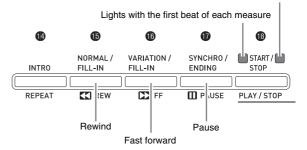


5. Press the (B (PLAY/STOP) button.

This starts playback of the song.

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

Lights with each subsequent beat of each measure



6. Press the (B (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-43).

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-11).

Playing on the Keyboard Using the Same Tone as the Song

1 Hold down the (MUSIC LIBRARY) 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-24) 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-42).

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)
- Press the (PART) button.

 This causes "L-[ON] R-[ON]" to appear on the display.
- 2. Use the ((\(\sigma\), (\sigma\)) 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 (PART) button again.

This exits the part on/off screen.

- 4. Hold down the (MUSIC LIBRARY) 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.

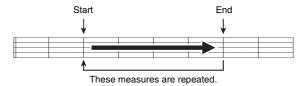
The part you turned off does not sound, so you can play it on the keyboard.

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-43).

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.



- Press the (B (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 (REPEAT) button.

This makes the measure the "start measure". The (REPEAT) button lamp flashes at this time.

3. When playback reaches the last measure of the section you want to repeat, press the (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 (REPEAT) button lamp is lit (not flashing) at this time.

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

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

Playing Back Audio Data Stored on a USB Flash Drive

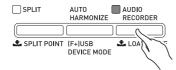
You can use your Digital Piano to play back audio data (WAV files*) stored on a commercially available USB flash drive.

See "USB Flash Drive" on page E-45 for more information.

* Linear PCM, 16bit, 44.1 kHz, Stereo

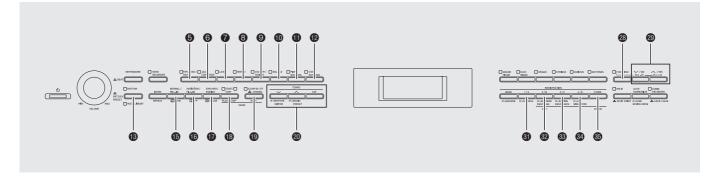
PREPARATION

- Prepare a USB flash drive that contains data recorded to it using the Digital Piano's Audio Recorder. See "Recording to a USB Flash Drive (Audio Recorder)" on page E-39 for more information.
- You can also use a computer to save audio data (WAV file) to the USB Flash Drive for playback. See "Storing Standard Audio Data (WAV Files) to a USB Flash Drive" on page E-46 for more information.
- Insert the USB flash drive that contains the data you want to play back into your Digital Piano's USB flash drive port.
- 1. Press the
 (AUDIO RECORDER) button.
 - This will cause the button's lamp to light.



- 2. While holding down the (a) (FUNCTION) button, press the (a) (AUDIO RECORDER) button.
 - This will display the audio file selection screen.
- 3. Use the (\checkmark, \land) buttons to select a song.
 - The ❷ (∧) button scrolls forward through the song file names (WAV01, WAV02, etc.) The ❷ (∨) button scrolls backward through the song file names.
- 4. Press the @ (EXIT) button.
- 5. Press the (B (PLAY/STOP) button.
 - This will start playback of the selected song.
- **6.** To stop a song, press the **(B)** (PLAY/STOP) button again.
 - To exit the Audio Recorder, press the (AUDIO RECORDER) button. This will cause the lamp above the AUDIO RECORDER button 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).

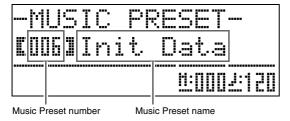
There are a total of 300 built-in Music Presets, which are divided into three groups (1, 2, 3). A fourth group (4) is provided for user presets.

• For more information, see the "Music Preset List" (page A-7).

Selecting a Music Preset

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

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



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

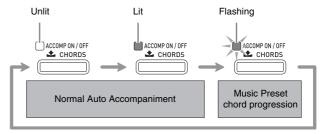
The following are the settings that are included in a

- Tones (main, layer, lower split) (page E-6)
- Layer balance (page E-6)
- Octave shift (page E-8)
- Reverb (page E-9)

Music Preset.

- Chorus (page E-10)
- Rhythm (page E-18)
- Tempo (page E-17)
- Auto Harmonize (page E-17)
- 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 **(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 **(B)** (ACCOMP ON/OFF) button cycles in the sequence shown below.



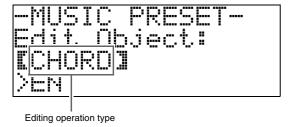
- To change the tone, use the ② through ③ (tone group) buttons to select the tone group and then use the ③ (✓, ∧) buttons to select a tone number.
- 4. To exit a Music Preset, while holding down the (FUNCTION) button, press (MUSIC PRESET) button.

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 4.

- **1** 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-26) for the settings you can configure and save for a user Music Preset.
- 3. Press the (FUNCTION) and (RHYTHM EDITOR) 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 **②** (**∨**) button to display "CHORD" and then press the **③** (ENTER) button to advance to the chord progression editing screen.

Next, perform the editing operation described under "To edit the chord progression" (page E-28). 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 (A) 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-30). 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 **②** (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 ② (V, ^) buttons to select the Music Preset number where you want to store the edited data.
- 8. Enter a name for the preset.

Use the ③ (<) and ④ (>) buttons to move the cursor to the character you want to change and then use the ④ (\(\sigma\), \(\chi\)) 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	I	J	Κ	L	М	Ν	0	Р	Q
R	S	Т	J	٧	W	Χ	Υ	Ζ	[
¥]	٨		`	а	b	С	d	е
f	g	h	į	j	k		m	n	0
р	q	r	s	t	u	٧	W	Х	У
Z	{		}						

9. Press the 6 (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. Press the (YES) button to overwrite or the (NO) button to cancel the save operation.

■ To edit the chord progression

1 • On the editing operation selection screen (page E-27), select "CHORD" and then press the (ENTER) button to display the chord progression editing screen shown below.

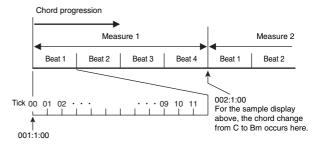


(1) Step (timing and chord)

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 **(REW)** and **(B)** (FF) buttons to scroll and view other steps.

- *1 Up to 999 measures
- *2 There are 12 ticks per beat, as shown below.

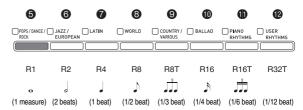


(2) Cursor

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 = 1 quarter note) when you want to specify chords for each beat. Use the instrument part buttons (3 through 2) to select one of the eight resolutions shown below.



- 2. Use the (REW) and (FF) buttons to move the cursor (2) on the chord progression editing screen to the step you want to select.
- 3. Change the content of the selected step as desired.
 - **3-1. Select a chord fingering mode and use the chord keyboard (page E-16) 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 (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 **(B)** (**REW)** and **(G)** (**FF)** buttons to move the cursor without inputting a chord will delete the temporarily inserted step.
 - 3-2. Use the **②** (**∨**, **∧**) 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 (START/STOP) button.
 - The table below describes other Music Preset editing operations you can perform. Press the (FUNCTION) button, use the (<) and (<) buttons to select the editing operation you want, perform the required operation, and then press the (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 ((\infty, \infty)) 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 ((), (^) 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 ((), (^) buttons to select the measures.
		Inserts a blank measure at the currently selected step.	-

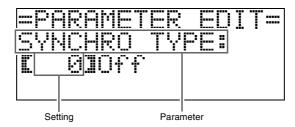
- * The Music Presets in groups 2, 3, and 4 are numbered sequentially, following the numbers in group 1, which start with 1. For details about sequential numbers, see the "Music Preset List" on page A-7.
- 5. After all editing operations are complete, press the (EXIT) button to return to the editing operation selection screen (page E-27).

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

On the editing operation selection screen (page E-27), select "Parameter" and then press the (ENTER) button to display the Auto Accompaniment parameter editing screen shown below.

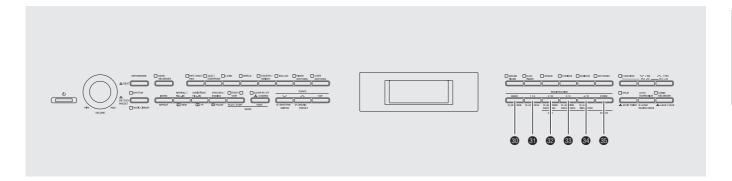


2. Use the (3) (<) and (4) buttons to select a parameter, and the (4) (\vee , \wedge) buttons to change its setting.

	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-19) on or off.	OFF: Mutes the part. ON: Sounds the part.
3	PERC ON/OFF: Percussion on/off	Toggles the percussion part (page E-19) on or off.	OFF: Mutes the part. ON: Sounds the part.
4	BASS ON/OFF: Bass on/off	Toggles the bass part (page E-19) 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-19) 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	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. • A chord (step) that is outside of the rhythm's beat is cut off.	 Normal: Edited chord progression proceeds as-is. Half: Halves chord timing within a measure. Double: Doubles chord timing within a measure. Ad: Multiplies chord timing within a measure by 3/4. Select this setting to match to a 6/8 time rhythm. Ad: Multiplies chord timing within a measure by 3/2. Select this setting to match to a 6/4 time rhythm.

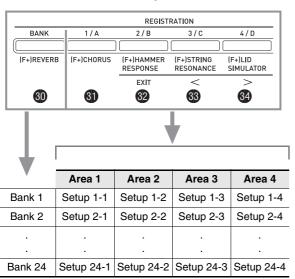
3. After all editing operations are complete, press the **(EXIT)** button to return to the editing operation selection screen (page E-27).

Registering Tone and Rhythm Setups



Registration memory lets you store Digital Piano setups (tone, rhythm, etc.) for instant recall whenever you need them. Registration memory simplifies performance of complex pieces that require successive tone and rhythm changes.

You can have up to 96 setups in Registration memory at one time. The (BANK) button and (REGISTRATION 1) to (REGISTRATION 4) buttons are used for recording.



- Each press of the **(BANK)** button cycles through the bank numbers, from 1 to 24.
- Pressing a button from the 1 to 2 buttons selects the corresponding area in the currently selected bank.

Setup 8-2 data

Tone Settings Keyboard Tone: 014 Harpsichord Brightness: 2 Reverb: 1 Room Chorus: Off ... Auto Accompaniment Settings Rhythm: 005 Pop Rock Tempo: 180

■ Registration Data Types

Accompaniment Volume: 20

Tone Settings

- Tone numbers (main, layer, split)
- Layer on/off
- Layer balance
- Split on/off
- Split point
- Octave shift
- Brightness
- Reverb
- Chorus
- Transpose
- Touch response

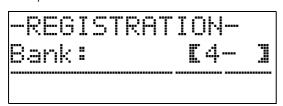
Auto Accompaniment Settings (Areas 1 through 4 only)

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

Saving Registration Data

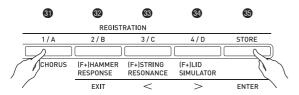
- 1. Configure the Digital Piano with the tone, rhythm, and other settings you want to save.
- 2. Press the (BANK) button to select the bank where you want to save the registration.

Example: Bank 4

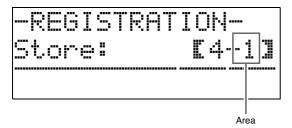


3. Next, hold down the (STORE) button as you use the (1) through (2) buttons to select an area.

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

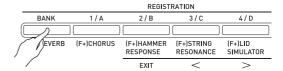


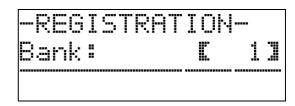
Example: Bank 4, Area 1



Recalling a Registration

1. Press the (BANK) button to select the bank that contains the setup you want to recall.

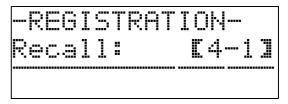




2. Use the buttons **3** to **4** to select the area whose setup you want to recall.

This will recall the registration memory setup and automatically configure the Digital Piano settings accordingly.

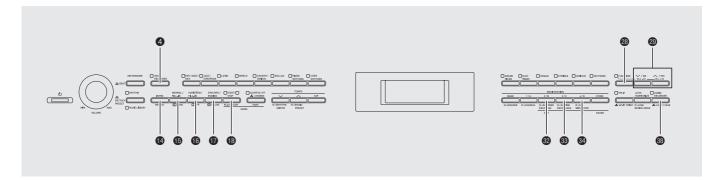
Example: When recalling the registration data in Bank 4, Area 1



■ Saving registration Data on an External Device

See "Connecting to a Computer" (page E-52) for details about how to transfer sampled data to a computer for storage.

Recording Your Keyboard Play



You can use the Song Recorder to record what you play on the Digital Piano to built-in song memory. 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.

When a commercially available USB flash drive is inserted in the Digital Piano's USB flash drive port, audio data is recorded to and played back from the USB flash drive (Audio Recorder).

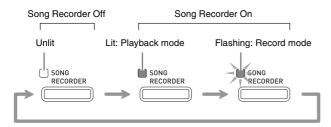
Recording to Built-in Song Memory (Song Recorder)

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

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

This turns on the Song Recorder and enters the record mode.

• Each press of the **4** (SONG RECORDER) button cycles through modes as shown below.



- 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 **4** (**SONG 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 **(ENDING)** button.



- **5.** To play back what you have recorded, press **(START/STOP)** again.
 - Each press of ® starts and stops playback.

6. To exit the Song Recorder, press the 4 (SONG RECORDER) button again so its lamp goes out.



NOTE

- Recorder memory capacity is approximately 10,000 notes per song. When remaining capacity is 100 notes or less, the **4** (SONG 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-23) for more information.
- You can listen to the song data currently stored in recorder memory at any time by pressing the
 (SONG 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

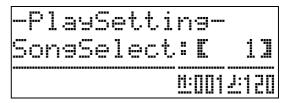
You can record up to five songs (numbered 1 through 5) in memory. After that, you can select a specific song for playback.

Use the (SONG RECORDER) button to cycle through the Song Recorder modes until the lamp above the SONG RECORDER button is lit. This is the Song Recorder playback mode.



2. While holding down the (FUNCTION) button, press the (SONG 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.
- 5. To record to the currently selected song, press the 4 (SONG 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 to Built-in Song Memory (Song Recorder)" (page E-33).

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 Song Recorder of this Digital Piano has a total of 17 tracks, one of which is a system track as 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 to Built-in Song Memory (Song Recorder)" (page E-33) and "Recording or Playing Back Multiple Songs" (page E-34), everything is recorded to the system track.

• Tracks 01 through 16

These tracks can be used to record notes, as well as 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), and pedal 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 to Built-in Song Memory (Song Recorder)" (page E-33) or "Recording or Playing Back Multiple Songs" (page E-34) to record to the system track.
- 2. Use the 4 (SONG RECORDER) button to cycle through the Song Recorder modes until the lamp above the SONG RECORDER button is flashing. This is the Song Recorder record mode.

Flashing: Record mode



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

This displays the track selection screen.

Use the **②** (**∨**, **∧**) button to select the track you want to record next (T01 through T16).

After selecting a track, press the **②** (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 (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 **®** (START/STOP) button again to play back the track you just recorded. Each press of **®** (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 (SONG RECORDER) button.
 - This displays the song selection screen.
 - (2) Press the **(2)** button once. This displays the track on/off screen.
 - (3) Use the ② (✓, △) buttons to select the track you want, and then press the ⑤ (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 Data Recorded with the Song Recorder

Performance data recorded with the Song Recorder can be deleted song-by-song. You also can delete a particular track from a song.

Deleting a Recorder Song

Use the 4 (SONG RECORDER) button to cycle through the Song Recorder modes until the lamp above the SONG RECORDER button is lit. This is the Song Recorder playback mode.



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

This displays the recorder song selection screen.

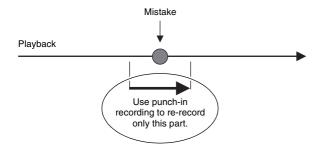
- 3. Use the ❷ (✓, ∧) buttons to select the recorder song you want to delete.
- 4. Hold down the 4 (SONG RECORDER) button until the message "Sure?" appears on the display.
- **5.** Press the **(YES)** button to delete the recorder song.
 - To cancel the delete operation, press the (NO) button.

Deleting a Particular 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 **②** (**∨**, **∧**) buttons to select the track you want to delete.
- 4. Hold down the 4 (SONG 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. Enter the Song Recorder 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 4 (SONG RECORDER) button until the punch-in recording screen appears on the display.



- **3.** Press the **10** (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.

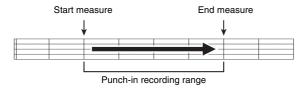
- Any one of the following also will start punch-in recording: a pedal operation; pressing the (SONG RECORDER) button; 1 changing the tone setting; changing the rhythm, or tempo setting 2
 - *1 Press **②** (SONG RECORDER) when you want to start punch-in recording without note input or a setting change.
 - *2 System track only
- You can perform **(REW)**, **(G)** (FF), and **(D)** (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 **(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 **4** (SONG RECORDER) button in place of the **1** (START/STOP) button above.
- If you want to cancel punch-in recording and retain the original (unedited) track data, hold down the **4** (SONG 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. Enter the Song Recorder record mode.
 - While holding down the (FUNCTION) button, press the (SONG RECORDER) button. This will display the recording setup screen.
- 2. Use the (3) (<) and (3) (>) buttons to display "AutoPu.IN", and then use the (3) (<, ^) buttons to select the start measure.
- 3. Use the ③ (<) and ④ (>) buttons to display "AutoPu.OUT", and then use the ④ (∨, ∧) buttons to select the end measure.
 - After selecting the start and end measures, press the **②** (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 "Re-recording Part of a Recorder Song (Punch-in Recording)" (page E-37).
- **5.** Press the **(^)** button to turn on auto punch-in recording.
- **6.** 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



- **1** Start playback of the song that contains the section you want to re-record.
- 2. 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 (REPEAT) button again.
- 4. Press the (START/STOP) button to stop playback.
- **5.** Enter the Song Recorder record mode 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 4 (SONG RECORDER) button until the punch-in recording screen appears on the display.
- 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).

Recording to a USB Flash Drive (Audio Recorder)

Anything played on the Digital Piano is recorded to the USB flash drive as audio data (WAV files*). If you play along on the Digital Piano as you play back data stored in song memory, the memory playback and your keyboard play are both recorded to USB flash drive.

* Linear PCM, 16bit, 44.1 kHz, Stereo

Recording Capacity

- 99 files (No. 01 to No. 99)
- Approximately 25 minutes maximum recording per file

Recorded Data

- Anything played on the Digital Piano is recorded.
- Individual part recording is not supported.

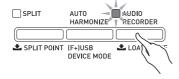
Recording Data Storage

Each new recording of audio data to a USB flash drive is automatically assigned a new file name, so existing data is not overwritten.

Recording Digital Piano Play (Audio Recorder)

PREPARATION

- Be sure to format the USB flash drive on the Digital Piano before using it. See "USB Flash Drive" on page E-45 for more information.
- 1 Insert the USB flash drive into the Digital Piano's USB flash drive port.
- 2. Press the (audio recorder) button
 - This will cause the **AUDIO RECORDER** button lamp to flash.



3. Start playing something on the keyboard.

• This will start recording to the USB flash drive. The message "A.Rec Start" will appear on the display a few seconds after recording starts.

NOTE

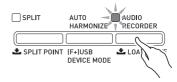
- Do not remove the USB flash drive from the USB flash drive port while the AUDIO RECORDER button lamp is lit or flashing. Doing so will interrupt recording and may corrupt data.
- 4. To stop recording, press the (audio Recorder) button.
 - The **AUDIO RECORDER** button lamp will change from flashing to lit to let you know that audio recording is complete.
 - At this time, you can press the (PLAY/STOP) button to replay what you have just recorded. To stop playback, press the (PLAY/STOP) button.
 - To exit the Audio Recorder, press the ③ (AUDIO RECORDER) button so its lamp goes out.

Recording Digital Piano Play as Data Recorded in Song Memory Plays Back (Audio Recorder)

- 1. Press the 4 (SONG RECORDER) button.
 - This causes the **SONG RECORDER** button lamp to light.



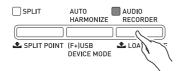
Press the (AUDIO RECORDER) button twice so its lamp is flashing.



- 3. Press the (B (PLAY/STOP) button.
 - This will start playback of the current song memory contents. Play along on the Digital Piano.
- 4. To stop recording, press the (3 (AUDIO RECORDER) button.
 - The AUDIO RECORDER button lamp will change from flashing to lit to let you know that audio recording is complete.
 - To exit the Audio Recorder, press the **39** (AUDIO RECORDER) button so its lamp goes out.

Playing Back Data Recorded on a USB Flash Drive

- 1 Press the 🚳 (AUDIO RECORDER) button.
 - This causes the **AUDIO RECORDER** button lamp to light.



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

This will display the audio file selection screen.

- 3. Use the ((\(\sigma\), (\(\sigma\)) buttons to select a song.
 - The ② (➤) button scrolls through the recorded songs in order from the newest (most recently recorded) to the oldest.
 - The (a) (\wedge) button scrolls from the old to the new.
- 4. Press the @ (EXIT) button.
- 5. Press the (B) (PLAY/STOP) button.
- **6**. To stop a song, press the **(PLAY/STOP)** button again.
 - To exit the Audio Recorder, press the (AUDIO RECORDER) button. This will cause the lamp above the AUDIO RECORDER button to go out.

Deleting an Audio File from a USB Flash Drive

Files can be deleted one at a time.

IMPORTANT!

- The procedure below deletes all of the data of the selected track. Note that the delete operation cannot be undone. Check to make sure you really do not need the data in Digital Piano memory before you perform the following steps.
- 1 Press the **(audio recorder)** button.
 - This will cause the **AUDIO RECORDER** button lamp to light.
- 2. While holding down the (FUNCTION) button, press the (AUDIO RECORDER) button.

This will display the audio file selection screen.

- 3. Use the **②** (**∨**, **∧**) buttons to select the song you want to delete.
 - The (*) button scrolls through the recorded songs in order from the newest (most recently recorded) to the oldest.
 - The ② (^) button scrolls from the old to the new.
- 4. Hold down the (a (AUDIO RECORDER) button until the message "Sure?" appears on the display.
- 5. To delete the data, press the (YES) button.

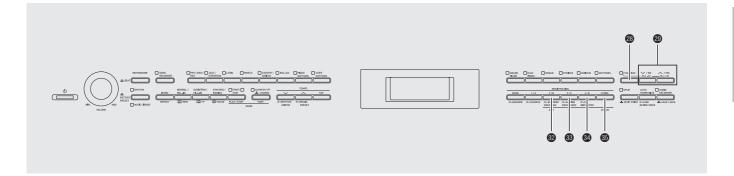
This will delete the Audio Recorder data you selected.

To cancel the delete operation, press the (NO) button.



• The file number of file you delete remains unused. Recording a new file will cause the file number that comes after the last file recorded to the USB flash drive.

Other Settings

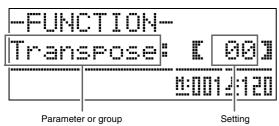


You can use the settings in this section to adjust the tuning and touch of the keyboard, to configure pedal and MIDI settings, and to configure other parameters in order to tailor Digital Piano operation to your particular needs.

Configuring Settings

🚺 🛮 Press the 🚳 (FUNCTION) button.

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



- 2. Use the **3** (**<**) and **3** (**>**) 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 ᠍ (ENTER) button, and then use buttons ❸ (≺) and ❹ (➤) 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 ((\(\sigma\), (\sigma\)) 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 ② (FUNCTION) button while you press the ③ (✓, △) buttons in step 3 will scroll the setting in steps of 10.
 - You also can use the **②** (FUNCTION) button for faster scrolling while changing the tone number, rhythm number, and other scrollable settings.
 - Keep the ② (FUNCTION) button depressed while pressing a ② (✓, △) button for high-speed scrolling. Releasing the ③ (FUNCTION) button first can result in another unintended setting being changed.

No.		Parameter	Display Name	Description	Settings	Shortcut Button*	
1	Keyb	poard Key (Transpose)	Transpose	Adjusts keyboard tuning by semitone units.	-12 to 00 to 12 semitones	@	
2	O I		415.5 Hz to 440.0 Hz to 465.9 Hz	3			
3		ooard Touch (Touch oonse)	Touch	Adjusts keyboard touch.	Off: Off 1: Strong sound even with light pressure 2: Normal 3: Normal sound even with strong pressure	89	
4	Volu	me Level Group	Volume			25	
	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	3 – 1 *	
	4-3	Song Volume	SongVol.	Adjusts the volume level of user song playback without changing the keyboard tone volume level.	00 to 42	3 - 1 *	
	4-4	Metronome Volume	MetroVol.	See page E-12.	00 to 42	2 3 – 3 *	
5	Temperament/Effect Group		Tmpr/Effect			26	
	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. Changes the temperament of the keyboard and Auto Accompaniment from the standard equal temperament on the standard equa		14: Gurjari Todi / 15: Chandrakauns / 16: Charukeshi < Base notes> 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-9.	-3 to 0 to 3	_	
	5-5	See page E-8.		U2: -2 to 0 to 2	3 – 2 *		
	5-6	Duet Mode	Duet	See page E-12.	Off, On	3 – 3 *	

^{* 🔞 – 🔞} in this column means, "While holding down 🚳, press 🔞."

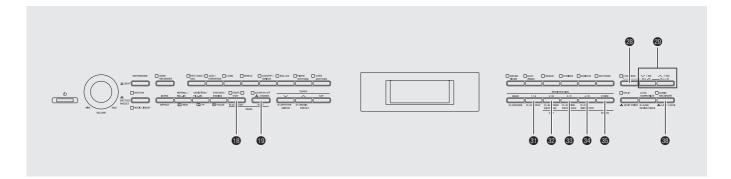
No.	o. Parameter		Display Name	Description	Settings	Shortcut Button*	
6	6 Song Playback/ USB Flash Drive Group		Play/Media			38	
	6-1 Pre-count		PreCount	Turn on this setting for an audible count before starting playback of a user song or a song on a USB flash drive.	Off, On	-	
	6-2	Song Repeat	SongRepeat	Turn on this setting to repeat play a user song or a song on a USB flash drive.	Off, On	3 – 1 3*	
	6-3	USB Flash Drive Format	MediaFormat	See page E-47.	_	-	
	6-4	USB Flash Drive File Delete	FileDelete	See page E-49.	-	-	
	6-5	USB Flash Drive File Rename	FileRename	See page E-49.	-	-	
7	MIDI Group		MIDI			Ø	
	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 LocalCtrl		LocalCtrl	Turn off this setting to have keyboard notes sent to an external device without being sounded by the Digital Piano.	Off, On	-	

^{* 🚳 – 🚯} in this column means, "While holding down 🚳, press 🚯."

No.		Parameter	Display Name	Description	Settings	Shortcut Button*
8	Othe	r Parameters Group	General			®
	8-1	Display Contrast	Contrast	Adjusts the contrast of the Digital Piano's display.	00 to 26	-
	8-2	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	-
	8-3	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	-
	8-4	Auto Power Off	AutoPower	Specifies if Auto Power Off (page E-5) is enabled (on) or disabled (oFF). Even when "on" is selected for this setting, you can temporarily disable Auto Power Off by holding down the (FUNCTION) button as you press the (U) button to turn on the Digital Piano.	Off, On	

^{* 🚳 – 🚯} in this column means, "While holding down 🚳, press 🚯."

USB Flash Drive



Your Digital Piano supports the following USB flash drive operations.

- USB flash drive formatting
- Data storage to a USB flash drive
 - Song data recorded with the Digital Piano's song recorder is on a USB flash drive as MIDI files (SMF format 0).
 - Standard audio data from a computer (WAV files) can also be stored on a USB flash drive and played back on the Digital Piano.
 - Digital Piano play can be recorded directly to a USB flash drive.
 - For details, see "Recording to a USB Flash Drive (Audio Recorder)" (page E-39).
 - Storage of edited Auto Accompaniment data on a USB flash drive
- USB flash drive data loading to Digital Piano memory
 - MIDI files and CASIO format files stored on a USB flash drive can be loaded into the Digital Piano as user songs (page E-23).
- Delete data from a USB flash drive
- Easy play back of song data from a USB flash drive

■ Types of Data

			orted ations
Data Type	Description (File Name Extension)	Save to USB Flash Drive	Load from USB Flash Drive
User rhythms (page E-18)	Auto Accompaniment data edited with this Digital Piano (AC7)	0	0
User songs (page E-23)	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-27)	Music Preset data edited on this Digital Piano (MPS)	0	0
Recorder songs (page E-33)	Song data recorded on this Digital Piano (CSR)	<u></u> *	0
Registration (page E-31)	Tone and rhythm setup settings (CR6)	0	0

^{*} Can be saved as a standard MIDI file (SMF format 0).

Storing Standard Audio Data (WAV Files) to a USB Flash Drive

Performing a record operation with the Digital Piano's audio recorder creates a folder named AUDIO on the USB flash drive. WAV files are stored in the AUDIO folder, automatically assigning them names from TAKE01.WAV to TAKE99.WAV. You also can connect a USB flash drive to a computer and change the names of audio data (WAV) files to the format "TAKEXX.WAV"*, and move them to the AUDIO folder. Then you will be able to play them back on the Digital Piano.

* XX = 01 to 99

USB Flash Drive and USB Flash Drive Port Handling Precautions

MPORTANT!

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

Copyrights

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

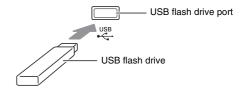
Connecting a USB Flash Drive to and Detaching It from the Digital Piano

MPORTANT!

 Never plug any other device besides a USB flash drive into the USB flash drive port.

■ To insert a USB flash drive

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



■ To remove a USB flash drive

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

Formatting a USB Flash Drive

MPORTANT!

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

<Supported USB Flash Drives>

This Digital Piano supports USB flash drives formatted to FAT32. If your USB flash drive is formatted to a different file system, use the Windows format function to reformat it to FAT32. Do not use quick format.

- 1 Insert the USB flash drive you want to format into the Digital Piano's USB flash drive port.
- 2. Press the @ (FUNCTION) button.
- 3. Press the 69 (AUDIO RECORDER) button.
- 4. Press the **(>)** button to switch to the "MediaFormat" screen.
- 5. Press the 6 (ENTER) button.

This will display a confirmation message "SURE?".

- If you want to cancel the format operation, press the (NO) or (EXIT) button.
- 6. 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 USB Flash Drive

Use the following procedure to save Digital Piano data to a USB flash drive.

- Song Recorder songs can be converted to standard MIDI files (SMF format 0) and saved.
- User songs (downloaded songs, etc.) cannot be saved to a USB flash drive.
- Insert the USB flash drive into the Digital Piano's USB flash drive port.
- 2. Select the data you want to save to the USB flash drive.

To select this type of data:*1	Do this:	
User rhythms	Select from among user rhythms 001 through 010 (page E-18).	
User Music Preset	Select from among user Music Preset 001 through 050 (page E-27).	
Recorder songs	Select from among recorder songs 1 through 5 (page E-33).	
Registrations*2	Press the (RHYTHM) button so the RHYTHM lamp next to it is lit.	

- *1 For more information about data types, see page E-45.
- *2 All registration data (24 banks \times 4 areas) is saved in a single file.
- 3. Hold down the (3) (AUDIO RECORDER) 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 (3) (>) 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 (SMF) button again so "SMF" is displayed on the right side of the screen.

- 5. Use the ((\(\sigma\), (\sigma\)) buttons to select the file number (01 to 99) you want to assign to the data when it is saved to the USB flash drive.
 - 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 USB flash drive.
 - * 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 is already a file with the same name on the USB flash drive, a message "Replace?" will appear asking if you want to overwrite it with the new data. Press the (YES) button to overwrite or the (NO) button to cancel the save operation.

■ USB Flash Drive Data (File) Storage Locations

The above procedure stores Digital Piano data in a data folder on the USB flash drive. The data folder where the data is stored depends on the data type.

Data Type	Data Folder Name
User rhythms	RHYTHMAC
User songs	MUSICLIB
User Music Presets	MUSICPST
Song recorder songs	RECORDER
Registrations	REGISTMR

- The above data folders are created automatically when you format the USB flash drive on the Digital Piano (page E-47).
- Note that a file not in one of the data folders cannot be loaded, deleted, or renamed by the Digital Piano. You also will not be able to recall, delete, or play any file stored in any subfolder inside one of the data folders.

Loading Data from a USB Flash Drive to Digital Piano Memory

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

IMPORTANT!

- Make sure that the data you want to load is in one of the data folders described under the procedure in the preceding section of this manual. Note that if you put data into a music data play-only folder (such as the PLAY folder), you will not be able to load the file into Digital Piano memory.
- Insert the USB flash drive into the Digital Piano's USB flash drive port.
- 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-18).
User songs	Select from among user songs 001 through 010 (page E-23).
User Music Preset	Select from among user Music Presets 001 through 050 (page E-27).
Song Recorder songs	Select from among recorder songs 1 through 5 (page E-33).
Registrations	Press the (RHYTHM) button so the RHYTHM lamp next to it is lit.

- * For more information about data types, see page E-45.
- 3. Hold down the (3) (AUDIO RECORDER) 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 **②** (**∨**, **∧**) buttons to select the file you want.
- 5. Press the 69 (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 in the 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 Data from a USB Flash Drive

Use the following procedure to delete USB flash drive data (files).

- 1 Insert the USB flash drive into the Digital Piano's USB flash drive port.
- 2. Press the @ (FUNCTION) button.
- 3. Press the (3) (AUDIO RECORDER) button.
- **4.** Use the **②** (**>**) button to switch to the "FileDelete" screen.
- **5.** Press the **(ENTER)** button. This displays a screen for selecting data for deletion.
- 6 Use the ② (✓, ∧) buttons to select the file you want.
- 7. Press the 69 (ENTER) button.

This will display a confirmation message "SURE?".

- If you want to cancel the delete operation, press the
 (NO) or
 (EXIT) button.
- 8. 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 USB Flash Drive File

Use the following procedure to change the file name of a file on a USB flash drive.

- 1 Insert the USB flash drive into the Digital Piano's USB flash drive port.
- 2. Press the @ (FUNCTION) button.
- 3. Press the **(AUDIO RECORDER)** button.
- **4.** Use the **②** (**>**) button to switch to the "FileRename" screen.
- **5** Press the **6** (ENTER) button. This displays a screen for changing the file name.
- 6 Use the (♥, ∧) buttons to select the file you want.
- 7 Use the ② (>) and ③ (<) buttons to move the flashing cursor to the character you want to change, and then use the ② (∨, ∧) 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	\$	&	_	-
()	-	٨	{	}	@	~	`	

8. 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.
- 9. 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 on a USB Flash Drive

You can use the procedure below to play back a user song (page E-23) stored on a USB flash drive without loading the song into Digital Piano memory.

■ USB Flash Drive Folders

Formatting a USB flash drive on the Digital Piano will automatically create a folder named PLAY on the USB flash drive. Also, four folders, named A, B, C, and D, are automatically created inside the PLAY folder. Place any song data you want to play on the Digital Piano into one of the four folders inside the PLAY folder. You can use the four folders to group your music data by family member, genre, or some other categories. Use buttons (3) through (4) (A through D) to select a folder.

Folder Name	Button Assignment
A	3 (A)
В	32 (B)
С	33 (C)
D	3 (D)

- 1. Store the music data you want to play in one of the USB flash drive folders.
- 2. Insert the USB flash drive into the Digital Piano's USB flash drive port.
- 3. While holding down the (FUNCTION) button, press the (AUDIO RECORDER) button.
- 4. Press one of the folder selection buttons (3) through 3) to select the USB flash drive folder (Folder A through Folder D) you want. This will display a song number and song name.
- 5 Use the (✓, ∧) buttons to select the song you want.
- 6. Press the (B (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-23).
- 7. To exit the USB flash drive playback mode, hold down the (FUNCTION) button as you press the (AUDIO RECORDER) button.

Playing Back All of the Songs in a Folder

Use the procedure below to select one of the four folders on a USB flash drive 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-21).
- 2. While holding down the (FUNCTION) button, press the (AUDIO RECORDER) button.

This will switch from tone demo tune playback to USB flash drive playback.

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

Error Messages

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

Display Message	Cause	Action		
No Media	 The USB flash drive is not connected to the Digital Piano's USB flash drive port. The USB flash drive was removed while some operation was in progress. The USB flash drive is write-protected. The USB flash drive has anti-virus software. 	 Correctly plug the USB flash drive into the USB flash drive port. Do not remove the USB flash drive while any operation is in progress. Unprotect the USB flash drive. Use a USB flash drive that does not have antivirus software. 		
No File	There is no loadable file in the "MUSICLIB" folder or no playable file in the "AUDIO" folder.	Move the file you want to load into the "MUSICLIB" folder or the file you want to play into the "AUDIO" folder (pages E-46 and E-47).		
No Data	You are attempting to save data to a USB flash drive when there is no data to save.	Record something before performing a save operation.		
Read Only	A read-only file with the same name you are trying to use is already stored on USB flash drive.	 Change the name and then save the new data. Remove the read-only attribute from the existing USB flash drive file and overwrite it with the new data. Use a different USB flash drive. 		
Media Full	There is not enough space available on the USB flash drive.	make room for new data (page E-49) or use a different USB flash drive.		
File Full	 There are too many files on the USB flash drive. There is a file named TAKE99.WAV in the "AUDIO" folder. 	 Delete some of the files on the USB flash drive to make room for new data. Delete the WAV file in the "AUDIO" folder. 		
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.		
Size Over	The data on the USB flash drive is too big to play.	This Digital Piano supports playback of song data files with a maximum size of 320 kbytes.		
Wrong Data	 The USB flash drive data is corrupted. USB flash drive contains data that is not supported by this Digital Piano. 			
Convert	There is not enough Digital Piano memory available to convert a song recorder song to SMF data and store it on the USB flash drive.	Reduce the size of the song data. Example: Delete any tracks that are not required.		
Format	 The USB flash drive format is not compatible with this Digital Piano. The USB flash drive is corrupted. 	 Format the USB flash drive on the Digital Piano. Use a different USB flash drive. 		
Media R/W	The USB flash drive is corrupted.	Use a different USB flash drive.		
File Name	You are attempting to rename a USB flash drive file with a file name that is already used by another file on the USB flash drive.	Rename to a different file name.		

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 commercially available 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.X, 10.6.X, 10.7.X)

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

*2: Windows Vista (32-bit)

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

• USB port

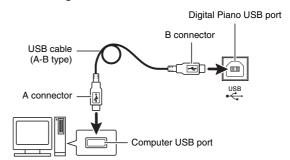
MPORTANT!

 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

IMPORTANT!

- Make sure you follow the steps of the procedure below exactly. Connecting incorrectly can make data send and receive impossible.
- 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 commercially available music software on your computer.
- 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.

IMPORTANT!

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

NOTE

- 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-43).
- 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 stored or imported are the same as those that can be saved to a USB flash drive from the Digital Piano (page E-45).*

* Recorder songs (page E-33) 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-5).
- 1 Remove the USB flash drive from the Digital Piano's USB flash drive port (page E-46).
 - You will not be able to transfer data between the Digital Piano and a computer while a USB flash drive is in the USB flash drive port.
- 2. Perform steps 1 through 3 under "Connecting the Digital Piano to Your Computer" to connect the Digital Piano to your computer (page E-52).

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 USB flash drive.

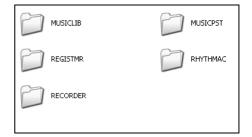
4. If your computer is running Windows XP, double-click "My Computer".*

Under "Devices with Removable Storage", you should be able to see a folder representing Digital Piano memory or the USB flash drive loaded in the Digital Piano.

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

5. Double-click "PIANO".

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



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-18)	RHYTHMAC	BIDRHYnn.AC7 (nn: 01 to 10) BIDRHYnn.Z00 (nn: 01 to 10) BIDRHYnn.CKF (nn: 01 to 10)
User songs (page E-23)	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-27)	MUSICPST	BIDMPSnn.MPS (nn: 01 to 50)
Recorder songs (page E-33)	RECORDER	BIDRECnn.CSR (nn: 01 to 05)
Registration (page E-31)	REGISTMR	BIDREGAL.CR6

 Data types and contents are the same as those when saving Digital Piano data to or loading it from a USB Flash Drive. See "USB Flash Drive" (page E-45) for more information.

- 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.
 - 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].
- 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.

- 9. 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.

■ 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 (http://music.casio.com/) 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.

Copyrights

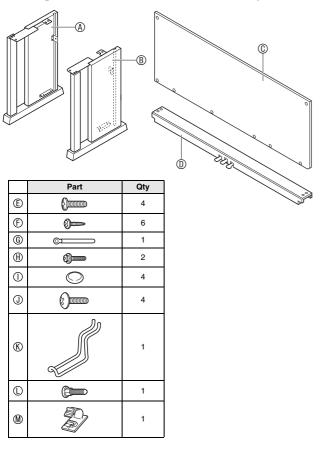
The rights of creators and copyright holders of music, images, computer programs, databases, and other data are protected by copyright laws. You are allowed to reproduce such works for personal or non-commercial use only. For any other purpose, all reproduction (including data format conversion), modification, transfer of reproductions, distribution over a network, or any other use without permission of the copyright holder exposes you to claims for damages and criminal prosecution for copyright infringement and violation of the author's personal rights. Be sure to reproduce and otherwise use copyrighted works only in accordance with applicable copyright laws.

Getting Ready

Assembling the Stand

Before assembling the stand, first take a few moments to check that all of the items shown below are present.

• This stand does not include any of the tools required for assembly. It is up to you to prepare a large Philips head (+) screwdriver for assembly.



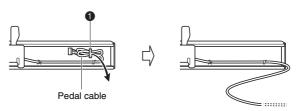
MPORTANT!

- Do not use any screws other than those that come with the stand. Doing so risks damage to the stand and/or Digital Piano.
- You can find the screws in a plastic bag inside of the packing material.
- If anything is missing or damaged, contact your local CASIO service provider.

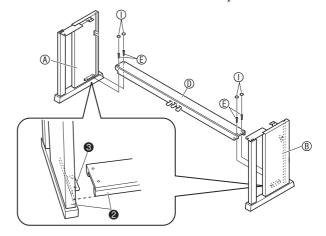
△ CAUTION

- Assembly of the stand should be performed by at least two people working together.
- This stand should be assembled on a flat surface.
- Do not remove the tape securing the keyboard cover in place until assembly is complete. Removing the tape can cause the keyboard cover to open and close during assembly, creating the risk of personal injury to your hands and fingers.
- Take care that you do not pinch your fingers between parts when assembling them.

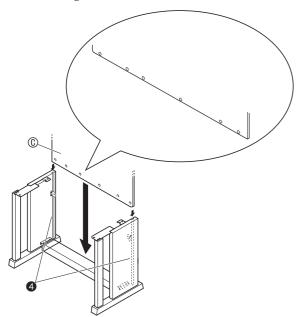
 Unfasten the band • that bundles the pedal cable to the back of crosspiece • and pull the pedal cord out from the crosspiece.



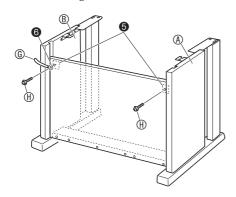
- 2. Attach side panels (A) and (B) to crosspiece (D). Secure the side panels using four screws (E).
 - When installing parts ②, slide the brackets ③ into the slots in either end of crosspiece ①. If the brackets ④ are not inserted into the ends of the crosspiece ① as far as they will go, the screws ⑤ will not be able to enter into the screw holes of the brackets ③, which can strip the threads of the screws.
 - Cover the screw heads with the caps ①.



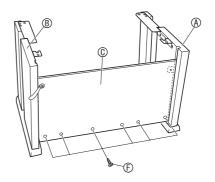
- 3. Slide back panel © into the grooves 4 of the side panels.
 - Before sliding back panel © into place, make sure that the widely spaced screw holes along the bottom of the panel are on the left (when viewed from the front of the stand), and the narrowly spaced holes are on the right.



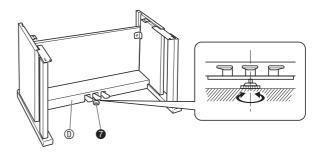
- **4.** Use the two screws (1) to secure the top left and right edges of the back panel (1) to the brackets (3) of side panels (A) and (B).
 - At location **6**, slip the clip **(** onto to the screw **(** before installing the screw.



5. Next, secure the bottom of the back panel © with the six © screws.



6. Adjust the height adjustment screw to provide support so crosspiece does not bow downwards when the pedals are pressed.

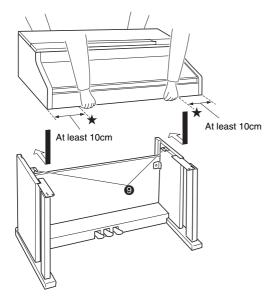


IMPORTANT!

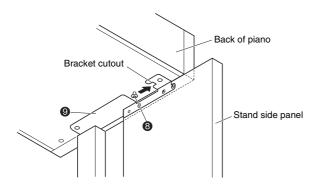
 Pressing the pedals without adjusting height adjustment screw or can result in damage to crosspiece or Always make sure you adjust height adjustment screw or before operating the pedals. 7. Place the piano onto the stand.

IMPORTANT!

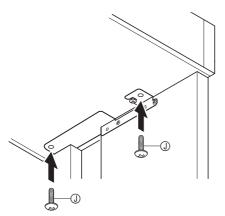
• In order to ensure you do not get your fingers pinched between the piano and the stand, grasp the piano on its sides (not its ends) at the locations marked with stars (★) in the illustration.



• At this time the screws on the bottom of the piano **3** should hook into the cutouts in the stand brackets **9**.

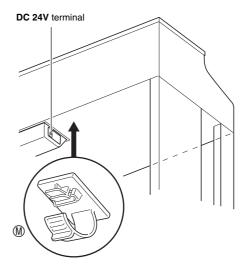


8. First, use the two screws ① to secure the back of the piano to the stand. Next, use the two screws ① to secure the front of the piano.



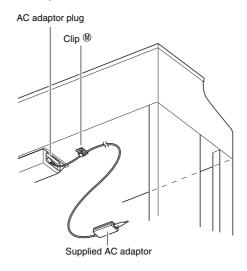
☑ IMPORTANT!

- The screws ① keep the piano from slipping off the stand. Never use the piano without the screws ① installed.
- **9.** Affix the adaptor cord clip **(M)** next to the power terminal (**DC 24V**).



To connect the cables

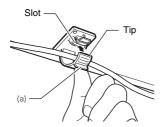
 Insert the plug of the AC adaptor that comes with the Digital Piano into its power terminal (DC 24V).



* Using the Clip ${\tt M}$

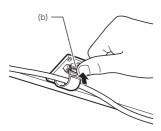
• To fasten the clip

As shown in the illustration, press down on (a) to force the tip of the clip into the slot. Press down until you hear the clip click securely into place.

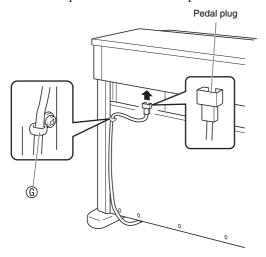


• To release the clip

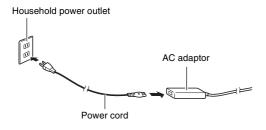
As shown in the illustration, press (b) in the direction indicated by the arrow.



- 2. Orienting the pedal plug as shown in the illustration, plug it into the pedal connector on the bottom of the piano.
 - Secure the pedal cord with the clip ⑤.

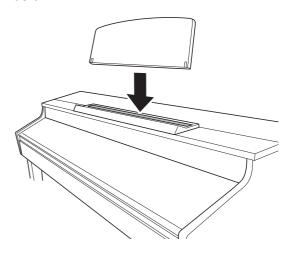


3. Plug the power cord of the AC adaptor that comes with the Digital Piano into a household power outlet as shown in the illustration below.

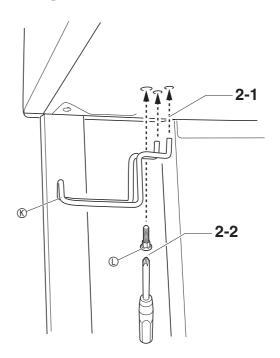


To install the music stand and headphones hook

Insert music stand into the groove on the Digital Piano console as shown in the figure below.



- 2. Install the headphones hook.
 - **2-1.** Insert the headphones hook **(S)** into the two holes on the bottom of the piano.
 - **2-2.** Use screw ① to secure the headphones hook in place.



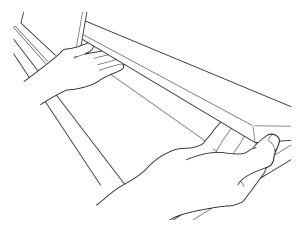
Opening and Closing the Piano Lid

MPORTANT!

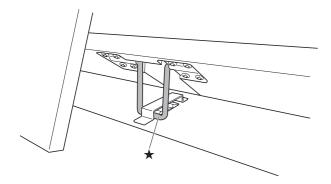
- Use both hands whenever opening or closing the lid, and take care that you do not close it on your fingers.
- Do not open the lid too wide. Doing so creates the risk of damage to the cover and digital piano.
- Stand in front of the digital piano on the right side when opening or closing the lid.

To open the lid

1. Lift up the lid as shown in the illustration.

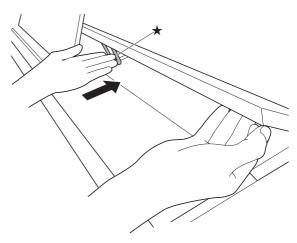


• The lid has a support bracket (indicated by the star ★ in the illustration) attached to its inside surface. Check to make sure that the support bracket is standing up fully.

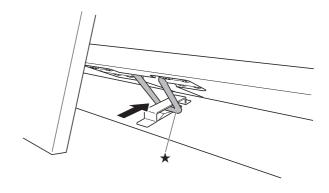


To close the lid

- 1. Carefully lift up slightly on the lid.
- 2. Use the fingers of your left hand to press back on the support bracket (★) as you slowly and carefully lower the lid.



 The support bracket is designed to prevent sudden closing of the lid. Should the support bracket stop moving, once again press back on it (★) as you slowly and carefully lower the lid.



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-E24500LW

Use the supplied power cord to connect the AC adaptor.

■ About the AC adaptor that comes with the Digital Piano

Note the following important precautions to avoid damage to the AC adaptor and power cord.

- 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.
- Before moving the digital piano, be sure to unplug the AC adaptor from the power outlet.
- Loop and bundle the power cord, but never wind it around the AC adaptor.

IMPORTANT!

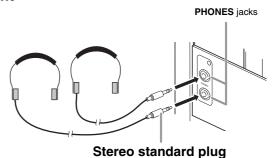
- Never connect the AC adaptor that comes with this digital piano to any other device besides this piano.
 Doing so creates the risk of malfunction.
- Make sure the digital piano is turned off before plugging in or unplugging the AC adaptor.
- The AC adaptor will become warm to the touch after very long use. This is normal and does not indicate malfunction.
- Use the AC adaptor so its label surface is pointed downwards. The AC adaptor becomes prone to emitting electromagnetic waves when the label surface is facing upwards.

Connecting Headphones

IMPORTANT!

- 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).

Front



Connect commercially available headphones to the **PHONES** jacks. Connecting headphones to either of the **PHONES** jack 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.

NOTE

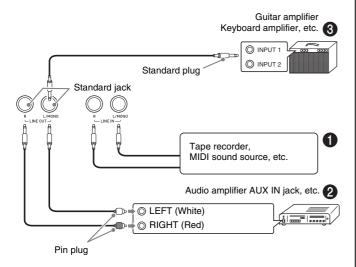
- Be sure to push the headphones plug into the PHONES jacks as far as it will go. If you don't, you may hear sound from only one side of the headphones.
- If the plug of the headphones you are using does not match the PHONES jacks, use the applicable commercially available adaptor plug.
- If you are using headphones that require an adaptor plug, make sure you do not leave the adaptor plugged in when you unplug the headphones. If you do, nothing will sound from the speakers when you play.

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 Digital Piano's Speakers (1)

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

LINE IN R jack input sounds through the Digital 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 2

Use commercially available cables to connect the external audio equipment to the Digital 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 Digital Piano is connected. Use the Digital Piano's VOLUME controller to adjust the volume level.

Use commercially available cables to connect the amplifier to the Digital 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 Digital Piano's VOLUME controller to adjust the volume level.

☑ IMPORTANT!

 When using the LINE OUT jacks, also connect headphones to the PHONES jack. This will switch the LINE OUT output to appropriate sound quality.

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.

NOTE

 You can get information about accessories that are sold separately for this product from the CASIO catalog available from your retailer, and from the CASIO website at the following URL. http://world.casio.com/

Reference

Troubleshooting

Problem	Cause	Action	See Page	
No sound is produced when I press a keyboard key.	 The VOLUME controller is set to "MIN". Headphones or an adaptor plug is plugged into one of the PHONES jacks. 	 Rotate the VOLUME controller more towards "MAX". Disconnect whatever is connected to the PHONES jack. 	☞ E-61	
The pitch of the Digital Piano is off.	The Digital Piano's key setting is something other than "440.0 Hz".	Change the key setting to "440.0 Hz", or turn Digital Piano power off and then back on again.	☞ E-42	
	2. Digital Piano tuning is incorrect.	2. Adjust Digital Piano tuning, or turn the Digital Piano off and then back on again.	☞ E-42	
	A non-standard temperament setting is being used.	3. Change the temperament setting to "00:Equal", which is the standard modern tuning.	☞ E-42	
	4. Octave shift is enabled.	4. Change the octave shift setting to 0.	ℱ E-8	
Tones and/or effects sound strange. Turning power off and then back on again does not eliminate the problem. Example: Note intensity does	The "Setting Backup" feature is turned on.	Turn off "Setting Backup". Next, turn power off and then back on again.	ℱ E-44	
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 music software on your computer. Next, turn the Digital Piano back on and then restart the music software on your computer. 	ℱ E-52	
I cannot record chord accompaniment data on my computer.	Accomp MIDI Out is turned off.	Turn on Accomp MIDI Out.	☞ E-43	
I cannot store data to a USB flash drive or load data from a USB flash drive.	_	See "Error Messages".	☞ E-51	
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.	ℱ E-52	
A tone's quality and volume sounds slightly different depending where it is played on the keyboard.	This is an unavoidable result of the digital sampling process,* and does not indicate malfunction. * Multiple digital samples are taken for the low range, middle range, and high range of the original musical instrument. Because of this, there may be a very slight difference in tonal quality and volume between sample ranges.			
When I press a button, the note that is sounding cuts out momentarily or there is a slight change in how effects are applied.	Performing a button operation while playing with the Duet Mode, Auto Accompaniment, the			

Problem	Cause	Action	See Page
Even though I play on different ranges of the	The ranges of certain tones are limited, which means that octaves change normally up to a certain low note or high note. With such a tone, the notes of the lowest octave will be		
keyboard, the notes do not change octaves.	repeated to the left of the lowest possible note, and the highest octave will be repeated to the right of the highest possible note. This is due do limitations in the range of the original musical instrument for each tone, and does not indicate malfunction of the Digital Piano.		

Product Specifications

Model	AP-650MBK
Keyboard	88-key piano keyboard, with Touch Response (3 types)
Maximum Polyphony	256 notes
Tones	250 (with Layer and Split)
Effects	Reverb (4 types), Chorus (4 types), Brilliance (–3 to 0 to 3), Damper Resonance, Hammer Response, String Resonance, Lid Simulator, Key Off Simulator
Metronome	Beats per measure: 0, 2, 3, 4, 5, 6Tempo Range: 20 to 255
Duet	Adjustable tone range: 0 to 3 octaves for the left keyboard; -4 to -1 octaves for the right keyboard
Auto Accompaniment	 Built-in Rhythms: 180 User Rhythms: Up to 10 (Approximately 40KB*1 maximum per rhythm) One Touch Presets: 180 types Auto Harmonize: 12 types
Demo Songs	6 songs (tone demo songs)
Music Library	Number of Songs: 60 User Songs: Up to 10 songs (320KB*1 maximum per song)
Music Presets	Built-in Presets: 300 User Presets: Up to 50 (Approximately 8KB*1 maximum per preset)
Registration	96 (4 setups × 24 banks)
Song Recorder	 Functions: Real-time recording, playback Number of Songs: 5 Number of Tracks: 17 (System Track + Tracks 01 through 16) Capacity: Approximately 50,000 notes total (Up to approximately 10,000 notes per song) Punch-in recording
Audio Recorder	 Real-time recording and playback to USB flash drive*² Songs: 99 files Approximately 25 minutes maximum recording per file.
Pedals	Damper (with half-pedal operation), Soft, Sostenuto
Other Functions	Transpose: ±1 octave (-12 to 00 to 12) Tuning: A4 = 415.5 Hz to 440.0 Hz to 465.9 Hz Octave Shift: ±2 octaves Temperaments: 17 types Stretch Tune Panel Lock
MIDI	16 multi-timbre received, GM Level 1 standard
USB Flash Drive	SMF playback, data storage, data loading, USB flash drive format, playback of audio data
Inputs/Outputs	 PHONES jacks: Stereo standard jacks × 2 MIDI OUT/IN terminals LINE OUT R, L/MONO jacks: Standard jacks × 2

Reference

Speakers	ϕ 16cm × 2 + ϕ 5cm × 2 (Output 30W + 30W)
Power Requirements	AC Adaptor: AD-E24500LW • Auto Power Off: Approximately 4 hours after last operation. Auto Power Off can be disabled.
Power Consumption	24V 28W
Dimensions	Digital Piano and Stand: 137.7 (W) \times 42.7 (D) \times 91.1 (H) cm (54 1 / ₄ \times 16 \times 35 7 / ₈ inch)
Weight	Digital Piano and Stand: approximately 50.2kg (110.7 lbs)

^{*1} Based on 1KB = 1024bytes, $1MB = 1024^2$ bytes

^{*2} Linear PCM, 16bit, 44.1 kHz, stereo .WAV format

[•] 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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- The contents of this manual are subject to change without notice.

■ 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:

AC Adaptor Handling Precautions

Model: AD-E24500LW

- 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

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
GHANDF	001	001	GRAND PIANO CONCERT	0	48
	001	001	GRAND PIANO STUDIO	0	54
	003	003	GRAND PIANO MODERN	0	49
	004	004	GRAND PIANO CLASSIC	0	50
	005	005	GRAND PIANO BRIGHT	1	52
	006	006	GRAND PIANO MELLOW	0	51
	007	007	GRAND PIANO DOLCE	0	55
	008	008	ROCK PIANO	1	48
	009	009	LA PIANO	1	49
	010	010	DANCE PIANO	1	51
	011	011	HONKY-TONK	3	48
	012	012	OCTAVE PIANO	3	49
	013	013	STRINGS PIANO	0	52
	014	014	PIANO PAD	0	53
ELEC PIAI	NO				
	001	015	ELEC.PIANO 1	4	48
	002	016	ELEC.PIANO 2	5	48
	003	017	60'S E.PIANO	4	51
	004	018	E.GRAND 80	2	48
	005	019	DYNO ELEC.PIANO	4	49
	006	020	FM ELEC.PIANO	5 4	49
	007	021	MELLOW E.PIANO POP ELEC.PIANO		50
	008	022	CHORUS E.PIANO	5 4	50
	010	023	SYNTH-STR.E.PIANO	4	52
	010	025	VIBRAPHONE	11	48
	012	026	CLAVI	7	48
	013	027	WAH CLAVI	7	49
	014	028	HARPSICHORD	6	48
	015	029	COUPLED HARPSICHORD	6	49
	016	030	MARIMBA	12	48
	017	031	CHORUS VIBRAPHONE	11	49
ORGAN					
	001	032	ROCK ORGAN 1	16	49
	002	033	JAZZ ORGAN	17	48
	003	034	DRAWBAR ORGAN	16	48
	004	035	ROTARY DRAWBAR	16	50
	005	036	ROTARY ORGAN	16	51
	006	037	PERC.ORGAN	17	49
	007	038	70'S ORGAN	17	50
	800	039	OVERDRIVE ORGAN	16	52
	009	040	TREMOLO ORGAN	16	53
	010	041	ROCK ORGAN 2	18	48
	011	042	ELEC.ORGAN FULL DRAWBAR	16 16	54 55
	012	043	CHURCH ORGAN	19	48
	013	044	CHAPEL ORGAN	19	49
STRINGS	V17	0.10			.5
-0	001	046	STEREO STRINGS 1	49	48
	002	047	STEREO STRINGS 2	48	49
	003	048	STRING ENSEMBLE	48	48
	004	049	SYNTH-STRINGS	50	48
	005	050	70'S SYNTH-STR.	50	49
	006	051	80'S SYNTH-STR.	50	50
	007	052	VIOLIN SECTION	40	48
	800	053	CHOIR	52	48
	009	054	SYNTH-VOICE	54	48
	010	055	SYNTH-PAD	90	48
	011	056	FANTASY	88	48
	012	057	NEW AGE	88	49
	013	058	WARM PAD	89	48
	014	059	WARM VOX	89	49
	015	060	POLYSYNTH PAD	90	49
	016	061	ATMOSPHERE PAD	99	48

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
VARIOUS					
	001	062	ACOUSTIC BASS	32	48
	002	063	RIDE BASS	32	49
	003	064	FINGERED BASS 1	33	48
	004	065	FINGERED BASS 2 FINGERED BASS 3	33	49
	005 006	066 067	PICKED BASS 3	33 34	50 48
	007	068	TRANCE BASS	38	48
	008	069	NYLON STR.GUITAR	24	48
	009	070	STEEL STR.GUITAR 1	25	48
	010	071	STEEL STR.GUITAR 2	25	49
	011	072	STEEL STR.GUITAR 3	25	50
	012	073	JAZZ GUITAR	26	48
	013 014	074 075	CLEAN GUITAR CHORUS CLEAN GUITAR	27 27	49
	015	076	CRUNCH ELEC.GUITAR 1	27	50
	016	077	CRUNCH ELEC.GUITAR 2	27	51
	017	078	OVERDRIVE GUITAR	29	48
	018	079	BREATHY ALTO SAX	65	49
	019	080	BREATHY TENOR SAX	66	49
	020	081	ALTO SAX	65	48
	021	082	TENOR SAX CLARINET	66 71	48
	022 023	083 084	FLUTE	71	48
	023	085	TRUMPET	56	48
	025	086	TROMBONE	57	48
	026	087	STEREO BRASS	61	48
	027	088	BRASS SECTION	61	49
	028	089	SYNTH-BRASS	62	48
	029	090	80'S SYNTH-BRASS	62	49
	030	091	SAW LEAD	81	48
	031	092 093	MELLOW SAW LEAD SQUARE LEAD	81 80	49
	032	093	ER HU	110	56
	034	095	YANG QIN	15	56
	035	096	ZHENG	107	56
	036	097	PI PA	105	56
	037	098	DI ZI	72	56
	038	099	XIAO	77	56
	039	100	SHENG	109	56
	040 041	101	SITAR TANPURA	104 104	56 57
	041	102	HARMONIUM	20	56
	043	104	SANTUR	15	58
	044	105	SHANAI	111	56
	045	106	KANUN	15	59
	046	107	OUD	105	59
CMTCME	047	108	NEY	72	57
GM TONE	S 001	109	GM PIANO 1	0	0
	001	110	GM PIANO 2	1	0
	003	111	GM PIANO 3	2	0
	004	112	GM HONKY-TONK	3	0
	005	113	GM E.PIANO 1	4	0
	006	114	GM E.PIANO 2	5	0
	007	115	GM HARPSICHORD	6	0
	800	116	GM CLAVI	7	0
	009 010	117 118	GM CELESTA GM GLOCKENSPIEL	9	0
	010	118	GM GLOCKENSPIEL GM MUSIC BOX	10	0
	012	120	GM VIBRAPHONE	11	0
	013	121	GM MARIMBA	12	0
	014	122	GM XYLOPHONE	13	0
	015	123	GM TUBULAR BELL	14	0
	016	124	GM DULCIMER	15	0
	017	125	GM ORGAN 1	16	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
	018	126	GM ORGAN 2	17	0
	019	127	GM ORGAN 3	18	0
	020	128	GM PIPE ORGAN	19	0
	021	129	GM REED ORGAN GM ACCORDION	20	0
	022 023	130 131	GM ACCORDION GM HARMONICA	21	0
	023	132	GM BANDONEON	23	0
	025	133	GM NYLON STR.GUITAR	24	0
	026	134	GM STEEL STR.GUITAR	25	0
	027	135	GM JAZZ GUITAR	26	0
	028	136	GM CLEAN GUITAR	27	0
	029	137	GM MUTE GUITAR	28	0
	030	138	GM OVERDRIVE GT	29	0
	031	139	GM DISTORTION GT	30	0
	032	140	GM GT HARMONICS	31	0
	033	141	GM ACOUSTIC BASS	32	0
	034	142	GM FINGERED BASS	33	0
	035	143	GM PICKED BASS	34	0
	036	144	GM FRETLESS BASS	35	0
	037	145 146	GM SLAP BASS 1 GM SLAP BASS 2	36 37	0
	038	146	GM SYNTH-BASS 1	38	0
	040	147	GM SYNTH-BASS 2	39	0
	041	149	GM VIOLIN	40	0
	042	150	GM VIOLA	41	0
	043	151	GM CELLO	42	0
	044	152	GM CONTRABASS	43	0
	045	153	GM TREMOLO STRINGS	44	0
	046	154	GM PIZZICATO	45	0
	047	155	GM HARP	46	0
	048	156	GM TIMPANI	47	0
	049	157	GM STRINGS 1	48	0
	050 051	158 159	GM STRINGS 2 GM SYNTH-STRINGS 1	49 50	0
	051	160	GM SYNTH-STRINGS 1	51	0
	053	161	GM CHOIR AAHS	52	0
	054	162	GM VOICE DOO	53	0
	055	163	GM SYNTH-VOICE	54	0
	056	164	GM ORCHESTRA HIT	55	0
	057	165	GM TRUMPET	56	0
	058	166	GM TROMBONE	57	0
	059	167	GM TUBA	58	0
	060	168	GM MUTE TRUMPET	59	0
	061 062	169 170	GM FRENCH HORN GM BRASS	60 61	0
	063	171	GM SYNTH-BRASS 1	62	0
	063	171	GM SYNTH-BRASS 2	63	0
	065	173	GM SOPRANO SAX	64	0
	066	174	GM ALTO SAX	65	0
	067	175	GM TENOR SAX	66	0
	068	176	GM BARITONE SAX	67	0
	069	177	GM OBOE	68	0
	070	178	GM ENGLISH HORN	69	0
	071	179	GM BASSOON	70	0
	072	180	GM CLARINET	71	0
	073 074	181 182	GM PICCOLO GM FLUTE	72 73	0
	074	183	GM RECORDER	73	0
	076	184	GM PAN FLUTE	75	0
	077	185	GM BOTTLE BLOW	76	0
	078	186	GM SHAKUHACHI	77	0
	079	187	GM WHISTLE	78	0
	080	188	GM OCARINA	79	0
	081	189	GM SQUARE LEAD	80	0
	082	190	GM SAW LEAD	81	0
	083	191	GM CALLIOPE	82	0
			GM CHIFF LEAD	83	0
	084	192			
	085	193	GM CHARANG	84	0
	085 086	193 194	GM CHARANG GM VOICE LEAD	84 85	0
	085	193	GM CHARANG	84	

090 198 GM WARM PAD 89 091 199 GM POLYSYNTH 90 092 200 GM SPACE CHOIR 91 093 201 GM BOWED GLASS 92 094 202 GM METAL PAD 93 095 203 GM HALO PAD 94 096 204 GM SWEEP PAD 95 097 205 GM RAIN DROP 96 098 206 GM SOUND TRACK 97 099 207 GM CRYSTAL 98 100 208 GM ATMOSPHERE 99 101 209 GM BRIGHTNESS 100 102 210 GM GOBLINS 101 103 211 GM ECHOES 102 104 212 GM SF 103 105 213 GM SITAR 104 106 214 GM BANJO 105 107 215 GM SHAMISEN 106 108 216	ank elect ISB/ SB de ección banco
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093 201 GM BOWED GLASS 92 094 202 GM METAL PAD 93 095 203 GM HALO PAD 94 096 204 GM SWEEP PAD 95 097 205 GM RAIN DROP 96 098 206 GM SOUND TRACK 97 099 207 GM CRYSTAL 98 100 208 GM ATMOSPHERE 99 101 209 GM BRIGHTNESS 100 102 210 GM GOBLINS 101 103 211 GM ECHOES 102 104 212 GM SF 103 105 213 GM SITAR 104 106 214 GM BANJO 105 107 215 GM SHAMISEN 106 108 216 GM KOTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219	0
094 202 GM METAL PAD 93 095 203 GM HALO PAD 94 096 204 GM SWEEP PAD 95 097 205 GM RAIN DROP 96 098 206 GM SOUND TRACK 97 099 207 GM CRYSTAL 98 100 208 GM ATMOSPHERE 99 101 209 GM BRIGHTNESS 100 102 210 GM GOBLINS 101 103 211 GM ECHOES 102 104 212 GM SF 103 105 213 GM SITAR 104 106 214 GM BANJO 105 107 215 GM SHAMISEN 106 108 216 GM COTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 112 220	0
095 203 GM HALO PAD 94 096 204 GM SWEEP PAD 95 097 205 GM RAIN DROP 96 098 206 GM SOUND TRACK 97 099 207 GM CRYSTAL 98 100 208 GM ATMOSPHERE 99 101 209 GM BRIGHTNESS 100 102 210 GM GOBLINS 101 103 211 GM ECHOES 102 104 212 GM SF 103 105 213 GM SITAR 104 106 214 GM BANJO 105 107 215 GM SHAMISEN 106 108 216 GM KOTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 112 220 GM SHANAI 111 113 221 GM	0
096 204 GM SWEEP PAD 95 097 205 GM RAIN DROP 96 098 206 GM SOUND TRACK 97 099 207 GM CRYSTAL 98 100 208 GM ATMOSPHERE 99 101 209 GM BRIGHTNESS 100 102 210 GM GOBLINS 101 103 211 GM ECHOES 102 104 212 GM SF 103 105 213 GM SITAR 104 106 214 GM BANJO 105 107 215 GM SHAMISEN 106 108 216 GM KOTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM SHANAI 111 112 220 GM SHANAI 111 113 221 GM STINKLE BELL 112 114 222 <	0
098 206 GM SOUND TRACK 97 099 207 GM CRYSTAL 98 100 208 GM ATMOSPHERE 99 101 209 GM BRIGHTNESS 100 102 210 GM GOBLINS 101 103 211 GM ECHOES 102 104 212 GM SF 103 105 213 GM SITAR 104 106 214 GM BANJO 105 107 215 GM SHAMISEN 106 108 216 GM KOTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 111 219 GM FIDDLE 110 111 219 GM SHANAI 111 113 221 GM TINKLE BELL 112 114 222 GM AGOGO 113 115 223 GM	0
099 207 GM CRYSTAL 98 100 208 GM ATMOSPHERE 99 101 209 GM BRIGHTNESS 100 102 210 GM GOBLINS 101 103 211 GM ECHOES 102 104 212 GM SF 103 105 213 GM SITAR 104 106 214 GM BANJO 105 107 215 GM SHAMISEN 106 108 216 GM KOTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 111 219 GM FIDDLE 110 111 219 GM SHANAI 111 113 221 GM TINKLE BELL 112 114 222 GM AGOGO 113 115 223 GM STEEL DRUMS 114 116 224 GM	0
100 208 GM ATMOSPHERE 99 101 209 GM BRIGHTNESS 100 102 210 GM GOBLINS 101 103 211 GM ECHOES 102 104 212 GM SF 103 105 213 GM STAR 104 106 214 GM BANJO 105 107 215 GM SHAMISEN 106 108 216 GM KOTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 1112 220 GM SHANAI 111 112 220 GM SHANAI 111 113 221 GM TINKLE BELL 112 114 222 GM AGOGO 113 115 223 GM STEEL DRUMS 114 116 224 GM WOOD BLOCK 115 117 225 <t< td=""><td>0</td></t<>	0
101 209 GM BRIGHTNESS 100 102 210 GM GOBLINS 101 103 211 GM ECHOES 102 104 212 GM SF 103 105 213 GM SF 103 106 214 GM BANJO 105 107 215 GM SHAMISEN 106 108 216 GM KOTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 111 219 GM FIDDLE 110 111 219 GM FIDDLE 111 111 219 GM FIDDLE 110 111 219 GM FIDDLE 110 111 219 GM FIDDLE 111 111 211 220 GM SHANAI 111 113 221 GM FIDLLE 112 114 222	0
102 210 GM GOBLINS 101 103 211 GM ECHOES 102 104 212 GM SF 103 105 213 GM SITAR 104 106 214 GM BANJO 105 107 215 GM SHAMISEN 106 108 216 GM KOTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 1112 220 GM SHANAI 111 113 221 GM TINKLE BELL 112 114 222 GM AGOGO 113 115 223 GM STEEL DRUMS 114 116 224 GM WOOD BLOCK 115 117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228	0
103 211 GM ECHOES 102 104 212 GM SF 103 105 213 GM SITAR 104 106 214 GM BANJO 105 107 215 GM SHAMISEN 106 108 216 GM KOTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 112 220 GM SHANAI 111 113 221 GM TINKLE BELL 112 114 222 GM AGOGO 113 115 223 GM STEEL DRUMS 114 116 224 GM WOOD BLOCK 115 117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229	0
104 212 GM SF 103 105 213 GM SITAR 104 106 214 GM BANJO 105 107 215 GM SHAMISEN 106 108 216 GM KOTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 112 220 GM SHANAI 111 113 221 GM TINKLE BELL 112 114 222 GM AGOGO 113 115 223 GM STEL DRUMS 114 116 224 GM WOOD BLOCK 115 117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 </td <td>0</td>	0
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106 214 GM BANJO 105 107 215 GM SHAMISEN 106 108 216 GM KOTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 111 219 GM FIDDLE 110 112 220 GM SHANAI 111 113 221 GM TINKLE BELL 112 114 222 GM AGOGO 113 115 223 GM STEL DRUMS 114 116 224 GM WOOD BLOCK 115 117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121 123	0
107 215 GM SHAMISEN 106 108 216 GM KOTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 111 211 220 GM SHANAI 111 113 221 GM TINKLE BELL 112 114 222 GM AGOGO 113 115 223 GM STEEL DRUMS 114 116 224 GM WOOD BLOCK 115 117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 <t< td=""><td>0</td></t<>	0
108 216 GM KOTO 107 109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 111 211 220 GM SHANAI 111 113 221 GM TINKLE BELL 112 114 222 GM AGOGO 113 115 223 GM STEEL DRUMS 114 116 224 GM WOOD BLOCK 115 117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121	0
109 217 GM THUMB PIANO 108 110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 112 220 GM SHANAI 111 113 221 GM TINKLE BELL 112 114 222 GM AGOGO 113 115 223 GM STEEL DRUMS 114 116 224 GM WOOD BLOCK 115 117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121 123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM APPLAUSE 126 128	0
110 218 GM BAGPIPE 109 111 219 GM FIDDLE 110 112 220 GM SHANAI 111 113 221 GM TINKLE BELL 112 114 222 GM AGOGO 113 115 223 GM STEEL DRUMS 114 116 224 GM WOOD BLOCK 115 117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121 123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128	0
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112 220 GM SHANAI 111 113 221 GM TINKLE BELL 112 114 222 GM AGOGO 113 115 223 GM STEEL DRUMS 114 116 224 GM WOOD BLOCK 115 117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121 123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 <td>0</td>	0
113 221 GM TINKLE BELL 112 114 222 GM AGOGO 113 115 223 GM STEEL DRUMS 114 116 224 GM WOOD BLOCK 115 117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121 123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 <	0
114 222 GM AGOGO 113 115 223 GM STEEL DRUMS 114 116 224 GM WOOD BLOCK 115 117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121 123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 </td <td>0</td>	0
115 223 GM STEEL DRUMS 114 116 224 GM WOOD BLOCK 115 117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121 123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 1	0
116 224 GM WOOD BLOCK 115 117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121 123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
117 225 GM TAIKO 116 118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121 123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
118 226 GM MELODIC TOM 117 119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121 123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
119 227 GM SYNTH-DRUM 118 120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121 123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
120 228 GM REVERSE CYMBAL 119 121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121 123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
121 229 GM GT FRET NOISE 120 122 230 GM BREATH NOISE 121 123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
122 230 GM BREATH NOISE 121 123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
123 231 GM SEASHORE 122 124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
124 232 GM BIRD 123 125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
125 233 GM TELEPHONE 124 126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
126 234 GM HELICOPTER 125 127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
127 235 GM APPLAUSE 126 128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
128 236 GM GUNSHOT 127 129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
129 237 STANDARD SET 1 0 130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
130 238 STANDARD SET 2 1 131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	0
131 239 STANDARD SET 3 2 132 240 STANDARD SET 4 3 133 241 ROOM SET 8	20
132 240 STANDARD SET 4 3 133 241 ROOM SET 8	120
133 241 ROOM SET 8	20
	120
134 242 HIP-HOP SET 9	120
	120
	120
	120
	120
	120
	120
	120
	120
142 250 ORCHESTRA SET 48	120



- While sequential numbered tone 071 (STEEL STR.GUITAR 2) or 072 (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-4) for the percussion instrument assigned to each keyboard key when a drum set (Sequential Number 237 to 250) is selected.

NOTA

- Si presiona múltiples teclas en el extremo izquierdo del teclado mientras están seleccionados los tonos secuenciales número 071 (STEEL STR. GUITAR 2) o 072 (STEEL STR. GUITAR 3), producirá un sonido de rasgueo de guitarra. Esto no es ningún signo de anomalía.
- Consulte la "Lista de asignación de batería" (página A-4) 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 asignación de batería

ORCHESTRA SET	Closed Hi-Hat	Pedal Hi-Hat	pen Hi-Hat	Ride Cymbal 1				Jazz Kick 1	Concert BD		Concert SD	astanets	mpani F	mpani F#	mpani G	mpani G	Timpani A	limpani Ar	Timpani o	Timpani c‡	impani d	Timpani of	limpani e	Timpani f			Concert Cymbal 2	oncorr cympans	Concert Cymbal 1																											
BRUSH SET		→						2		충	Brush Snare 1	0		⊨				≠	î	Brush Crash Cymbal 1 Ti		Brush Ride Cymbal 1 Ti	_	Ė	_	Brush Splash Cymbal ←	A Princh Crach Cumbal 2				_	ψ \ •	-	_	_		_	_	_	_	_	_	_	_		_	_	_	_		_	_	_	I 4	_	
JAZZ SET		+						zz Kick 2	Jazz Kick 1		zz Snare 1	Spare 2																																										l V		,
TRANCE SET	¥	+	ψ.	→ 1				Trance Kick 2	Trance Kick 1	Trance Side Stick	Trance Snare 1	Trance Spare 2	+	Trance Closed Hi-Hat	Ψ,	Trance Open Hi-Hat 1			L 1		•	•	+	+	Trance Tambourine	ψ,	1	•	•	+	•	ψ \	L 1			+	+	ψ,	.	1 1	. 1		•	+	+	.	1 1		• •	+	+	ψ,	1	↓ ↓	. 1	
SYNTH SET 2	4	+	ψ.	+ 1			. ↓	Synth2 Kick 2	Synth2 Kick 1	Synth1 Rim Shot	Synth2 Snare 1	Syntho Spare 2	Synth2 Low Tom 2	Synth2 Closed Hi-Hat 1	Synth2 Low Tom 1	Nosed Hi-	Synth2 Mid Tom 2	Synth2 Open HI-Hat	Synth Mid 10m 1		Synth2 High Tom 1		Ψ	Ψ	Ψ.	· •	Synth1 Cowbell		•	+	_		L 1		. •	+	•	↓	Synth1 Maracas	1	. 1	. +	Synth1 Claves	Ψ.	+	ψ.	1		. ↓	+	+	ψ,	1 1	ı v	. 1	,
SYNTH SET 1	¥	+	ψ.	+ 1	. .		. ↓	Synth1 Kick 2	Synth1 Kick 1	Synth1 Rim Shot	Synth1 Snare 1	Synth 1 Spare 2	Synth 1 Low Tom 2	Synth 1 Closed Hi-Hat 1	Synth1 Low Tom 1	Synth1 Closed Hi-Hat2	Synth1 Mid Tom 2	Synth 1 Open HI-Hat	Synth I Mich Tom 2	Synth1 Crash Cymbal	Synth1 High Tom 1	Synth1 Ride Cymbal	Ψ.	Ψ	Synth1 Tambourine	; •	Synth1 Cowbell		Ψ.	Synth1 High Bongo	Synth 1 Low Bongo	Synth1 Mute Hi Conga	Synth Open HI Conga	Synthetic open compa	. •	+		↓				. •	Claves		ψ.	ψ,	1 1		. ↓	+	\	ψ,	1 1	ı v	. 1	,
ELECTRONIC SET	•	+	Ψ,	+ 1				Elec. Kick 2	Elec. Kick 1	+	Elec. Snare 1	Flac Share 2	Elec. Low Tom 2	4	Elec. Low Tom 1	↓	Elec. Mid Tom 2	٠	Floc High Tom 2	→ High 10011 E	Elec. High Tom 1	•	Reverse Cymbal	+	+	.	1			Ψ	Ψ,	ψ、	L 1			+	+	ψ,	.	1 1	. 1	. +	¥	+	V	.	1 1			+	+	ψ,	+ 1	↓ ↓	, 1	,
POWER SET	+	+	ψ.	+ 1				Power Kick 2	Power Kick 1	4	Power Snare 1	Power Spare 2	Room Low Tom 2	+	Room Low Tom 1		Room Mid Tom 2	.	Poom High Tom 2	4 mon iigii iigii 4	om High Tom 1			+	+	.	1			+	4	ψ \	١ ١		. +	+	+	ψ,	.	1 1	. 4		+	+	+	ψ,	1 1			+	+	ψ,	1 1	. •		,
HIP-HOP SET	4	+	.	+ 1				Hip-Hop Kick 2	Hip-Hop Kick 1	Hip-Hop Side Stick	Hip-Hop Snare 1	Hip-Hop Spare 2		Hip-Hop Closed Hi-Hat	4	Hip-Hop Pedal Hi-Hat	·	Нір-нор Ореп Ні-нат	L 1			ų.	+	+	+	.	1			+	Ψ.	ψ \	١ ١		. +	+	+	ψ,	.	1 1	. 4	. +	4	+	+	ψ,	1			+	+	ψ,	1	L ↓		,
ROOM SET	4			+ 1				Room Kick 2	Room Kick 1	4	Room Snare 1	Boom Spare 2			Room Low Tom 1	↓	Room Mid Tom 2	₽	Poom High Tom 2		Room High Tom 1		+	Ψ	Ψ.	ψ.	1			4	Ψ.	ψ,	١ ٦			+	+	ψ.	.	1 1	. 4		4	+	4	ψ,	1			+	+	ψ,	1	ı v	. 1	,
STANDARD SET 4	4	+	.	+ 1				Standard4 Kick 2	Standard4 Kick 1	4	Standard4 Snare 1	Standard4 Spare 2	+	+	Ψ.	.	ψ.	.	L 1			ų.	+	+	+	.	1			+	Ψ.	ψ \	L 1		. +	4	+	ψ,	.	1 1	. 4		4	+	+	ψ,	1			+	+	ψ,	1	. 4		
STANDARD SET 3	¥	+	Ψ,	* 1				Standard3 Kick 2	Standard3 Kick 1	Standard3 Side Stick	Standard3 Snare 1	Standard3 Share 2	Standard3 Low Tom 2	Standard3 Closed Hi-Hat	Standard3 Low Tom 1	Standard3 Pedal Hi-Hat	Standard3 Mid Tom 2	Standard3 Open Hi-Hat	Standard3 High Tom 2	4	Standard3 High Tom 1		+	+	+	ψ,	1 1	•		+	4	ψ \	L 1			+	+	ψ,	.	1 1			¥	+	+	.	1 1		• •	+	+	ψ.	1	ı 4		
STANDARD SET 2	4	+	.	+ 1				Standard2 Kick 2	Standard2 Kick 1	4	Standard2 Snare 1	Standard2 Share 2	+	Standard2 Closed Hi-Hat	4	Standard2 Pedal Hi-Hat	↓	Standard2 Open HI-Hat	L 1			ų.	+	+	+	.	1			+	Ψ.	ψ \	L 1		. +	+	+	ψ,	.	1 1	. 4		4	+	+	ψ,	1			+	+	ψ,	1	L ↓		
STANDARD SET 1	High Q		_	Scratch Pull	Click	¥	Ė	2	Kick 1	_	Snare 1	Standard1 Spare 2	_	Hat			Mid Tom 2		Mid Iom I	pal 1		al 1	<u>a</u>	Ť		Cymbal	Cowbell		bal 2			-	Open High Conga	т		Ė				Short High Whistle	r		П	ood Block	3lock		Open Cuica	Ī.		lei		Ī	Mute Surdo		Γ	
Key/Note Number Número de clave/nota		E1 28	F1 29	E4 24		A1 33		B1 35	C2 36	C ² 2 37	D2 38		E2 41	F#2 42	G2 43		A2 45	R2 47 B72 46	: 5	C3 40	D3 50		E3 52	F3 53		G3 55	A3 57	By 58	B3 59	C4 60	C#4 61	D4 62			F# 65 F#4 66	G4 67	Ab4 68	A4 69	B4 71		C5 /2		Eh5 75	E5 76	F5 77		G5 /9 Ab5 80	A5 81	B ¹ 5 82	B5 83	C6 84	C#6 85	D6 86		F6 89	3

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

• " \leftarrow " indica una clave asignada a los mismos tonos que para STANDARD SET 1.

Rhythm List/Lista de ritmos

	Group	Sequential	
Group Name/	Number/	Number/	Rhythm name/
Nombre del grupo	Número de	Número	Nombre del ritmo
POPS/DANCE	grupo	secuencial	
FOF5/DANCE	POPS		
	001	001	POP
	002	002	ACOUSTIC GUITAR POP
	003	003	FAST POP
	004	004	FUNK POP
	005	005	POP ROCK
	006	006 007	6/8 POP FAST SOUL
	008	008	SLOW SOUL
	009	009	60's SOUL
	010	010	POP SHUFFLE
	8 BEAT/16 BE		1
	011	011	STRAIGHT 8 BEAT 1
	012	012 013	STRAIGHT 8 BEAT 2 FUNK 8 BEAT
	013 014	013	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
	020 021	020 021	16 BEAT SHUFFLE
	DANCE	021	10 BEAT SHOFFLE
	022	022	HIP-HOP
	023	023	DANCE POP
	024	024	DISCO POP
	025	025	TECHNO POP
	026	026	TRANCE
	027 028	027 028	MODERN R&B MODERN DANCE
	028	028	DISCO SOUL
	ROCK		
	030	030	STRAIGHT ROCK
	031	031	SHUFFLE ROCK
	032	032	SHUFFLE BLUES
	033	033	ROCK BLUES EP BLUES
	034	034	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	041 042	NEW ORLNS R&R 60's ROCK
	042	042	ROCK
	044	044	70's PIANO ROCK
	045	045	ROCK WALTZ
JAZZ/EUROP	EAN		
	JAZZ		Lay avv Bia Bana
	001	046 047	SLOW BIG BAND MIDDLE BIG BAND
	002	047	FAST BIG BAND
	004	049	ORCHESTRA SWING
	005	050	SWING
	006	051	SLOW SWING
	007	052	JAZZ WALTZ
	800	053	FOX TROT
	009	054 055	QUICKSTEP JAZZ COMBO 1
	EUROPEAN	000	UNZZ GOIVIDO I
	011	056	SCHLAGER
	012	057	POLKA

	Group	Sequential	
Group Name/ Nombre del	Number/	Number/	Rhythm name/
grupo	Número de	Número	Nombre del ritmo
9I	grupo	secuencial	
	013	058	WALTZ 1
	014	059	WALTZ 2
	015	060	SLOW WALTZ VIENNESE WALTZ
	016	061	
	017 018	062 063	FRENCH WALTZ SERENADE
	019	064	TANGO
	020	065	MARCH 1
	021	066	MARCH 2
LATIN			
	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	RHUMBA
	800	074	CHA-CHA-CHA
	009	075	MERENGUE
	010	076	BOLERO
	011	077	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
	018 019	084 085	CUMBIA CALYPSO
	020	086	FORRO
	020	087	PAGODE
	022	088	BANDA
	023	089	PASILLO
	024	090	ARGENTINE CUMBIA
	025	091	PUNTA
	026	092	BACHATA
WORLD			
	WORLD I		
	AMERICAN		
	001	093	DIXIE
	002	094	TEX-MEX
	003	095	FAST GOSPEL
	004	096	SLOW GOSPEL
	005	097	HAWAIIAN
		STERN EUROP	
	006	098	PASODOBLE
	007 008	099 100	CAUCASIAN RUSSIAN CHANSON 1
	008	101	RUSSIAN CHANSON 2
	010	101	POLISH WALTZ
	ARABIC/ORIE		1 GEIGH WAETZ
	011	103	SIRTAKI
	012	104	MUS
	013	105	ADANI
	014	106	BALADI
	015	107	KHALIJI
	016	108	MALFOUF
	WORLD II		
	INDIAN		
	017	109	BHANGRA
	018	110	DADRA
	019	111	GARBA
	020	112	KEHARWA

	i		
Group Name/	Group	Sequential	
Nombre del	Number/	Number/ Número	Rhythm name/
grupo	Número de	Numero secuencial	Nombre del ritmo
	grupo 021	113	DANDIYA
	021	114	TEEN TAAL
	023	115	BHAJAN
	CHINESE	110	517.67.11
	024	116	GUANGDONG
	025	117	JIANGNAN
	026	118	BEIJING
	027	119	DONGBEIYANGGE
	028	120	JINGJU
	029	121	HUANGMEIXI
	030	122	QINQIANG
	031	123	YUJU
	032	124	YAOZU
	033	125	DAIZU
	034	126	MIAOZU
	035	127	MENGGU
	036	128	XINJIANG
	037	129	ZANGZU
	SOUTHEAST		KDONOONO
	038	130	KRONCONG
	JAPANESE	131	DANGDUT
	JAPANESE 040	132	ENKA
COLINITOVAVA		132	ENKA
COUNTRY/VA	COUNTRY		
	001	133	MODERN COUNTRY
	002	134	COUNTRY 8 BEAT
	003	135	COUNTRY BALLAD
	004	136	COUNTRY SHUFFLE
			FINGER PICKING
	005	137	COUNTRY
	006	138	COUNTRY WALTZ
	007	139	BLUEGRASS
	VARIOUS		
	008	140	CHRISTMAS SONG
	009	141	CHRISTMAS WALTZ
	010	142	SCREEN SWING
	011	143	SYMPHONY
BALLAD	012	144	STR QUARTET
BALLAD	BALLAD		
	001	145	PIANO ROCK BALLAD
	002	146	90's BALLAD
	003	147	MODERN BALLAD
	004	148	ELECTRIC BALLAD
	005	149	SLOW BALLAD 1
	006	150	SLOW BALLAD 2
	007	151	R&B BALLAD
	008	152	16 BEAT BALLAD
	009	153	SOUL BALLAD
	010	154	POP BALLAD 1
	011	155	POP BALLAD 2
	012	156	PIANO WALTZ BALLAD
	013	157	90's 6/8 BALLAD
	014	158	6/8 BALLAD 1
	015	159	6/8 BALLAD 2
	016	160	ROCK BALLAD
PIANO RHYTI		11.40	
	PIANO RHYTI		DIANO O DEAT
	001	161	PIANO 8 BEAT
	002	162 163	PIANO BALLAD 1 PIANO BALLAD 2
	003	164	EP BALLAD 1
	004	165	EP BALLAD 2
	006	166	BLUES BALLAD
	007	167	JAZZ COMBO 2
	008	168	JAZZ COMBO 3
	009	169	RAGTIME
	010	170	BOOGIE-WOOGIE

Group Name/ Nombre del grupo	Group Number/ Número de grupo	Sequential Number/ Número secuencial	Rhythm name/ Nombre del ritmo
	011	171	PIANO ROCK & ROLL
	012	172	ARPEGGIO 1
	013	173	ARPEGGIO 2
	014	174	ARPEGGIO 3
	015	175	PIANO MARCH 1
	016	176	PIANO MARCH 2
	017	177	STRIDE PIANO
	018	178	WALTZ 3
	019	179	WALTZ 4
	020	180	WALTZ 5

NOTE

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

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
	POPS		
	1	1	Soft Pop
	2	2	Winter Pop
	3	3	Oldies Pop
	4	4	Alpine Flora
	5	5	Gypsy
	6 7	7	Rain Pop Movie Waltz
	8	8	Funky Pop
	9	9	Love Pop
	10	10	60's Pop
	11	11	Rising Sun
	12	12	Pop Ska
	13	13	Weep Blues
	14	14	Cartoon
	15	15	Carol My Life
	16 17	16 17	Blue Love
	18	18	Xmas Pop
	19	19	Shuffle Pop1
	20	20	Shuffle Pop2
	21	21	70's Soul
	22	22	70's Pop
	23	23	West Coast
	24	24	Bossa Pop
	25	25	Radio Pop
	26	26	Crazy Roll
	27 28	27 28	80's Pop 1 80's Pop 2
	29	29	UK Pop 1
	30	30	UK Pop 2
	31	31	A Feeling
	32	32	Calling
	33	33	80's EuroPop
	34	34	The World
	35	35	Mexican Pop
	36	36	Guitar Pop
	37 38	37 38	90's Pop Wonder
	39	39	Modern Pop 1
	40	40	Modern Pop 2
	41	41	MdrnPopRock
	DANCE		
	42	42	Funky Disco
	43	43	Funky Clavi
	44	44	Disco Soul
	45	45	70's Disco
	46 47	46 47	Disco Lady Staying
	48	48	Up&Down
	49	49	80's Disco
	50	50	80'sDancePop
	51	51	Bb Girl
	52	52	Blv Disco
	53	53	Lady Jam
	54	54	Into Your H
	55 56	55 56	Euro Pop Modern Dance
	57	57	Trance
	58	58	ShuffleDance
	ROCK		
	59	59	50's Rock 1
	60	60	50's Rock 2
	61	61	Heartache
	62	62	EP R&R
	63 64	63 64	Pop R&B 60's Rock 1
	65	65	60's Rock 2
	66	66	60's Rock 3
	67	67	60's Rock 4
	68	68	60's Rock 5
	69	69	Get Rock
	70	70	Honky Rock
	71	71	Wild Rock
	72	72	Alligator Movie Book
	73	73	Movie Rock
	74	74	Pop Rock

Group	Group	Sequential	
Name/	Number/	Number/	Preset Name/
Nombre del grupo	Número de	Número secuencial	Nombre de preajuste
dei grupo	grupo 75	75	16Bt Shuffle
	76	76	Heat Up
	77	77	Hard Rock
	78	78	Grunge Rock
	79 80	79 80	Modern Rock R&R
	81	81	Piano R&R
	82	82	Blues
	83	83	8 Bars Blues
	84	84	Riff Rock 1
	85	85	Riff Rock 2
2	86	86	Riff Rock 3
2	CLASSIC		
	1	87	Canon
	2	88	Air G String
	3	89	Je Te Veux
	5	90 91	Adagio Spring
	6	92	Ave Maria
	7	93	JesusBleibet
	8	94	Symphony 25
	9	95	Symphony 40
	10	96	HungriaDance
	11	97	Eine Kleine
	12	98 99	Pathetique Moonlight
	14	100	PstlSymphony
	15	101	Ode To Joy
	16	102	Le Cygne
	17	103	Swan Lake
	18	104	Valse Fleurs
	19 20	105 106	Habanera Nocturne
	21	107	Etude
	22	108	FrenchCancan
	23	109	Fantaisielmp
	24	110	Humoresque
	25	111	Pavane
	26 27	112 113	Hope & Glory Moldau
	28	114	FromNewWorld
	29	115	Reverie
	30	116	Nutcracker
	31	117	Liebestraume
	32	118	Gymnopedies
	33	119	Jupiter
	34 35	120 121	Entertainer MapleLeafRag
	TRAD		mapiozodii iag
	36	122	Michael Row
	37	123	GrndpasClock
	38	124	Troika
	39 40	125 126	AuldLangSyne Aloha Oe
	40	127	O Sole Mio
	42	128	Furusato
	43	129	SzlaDziweczk
	44	130	Battle Hymn
	45	131	Condor
	46 47	132 133	ScarboroFair Danny Boy
	48	134	Greensleeves
	49	135	Annie Laurie
	50	136	AmazingGrace
	51	137	WeWishU Xmas
	52	138	Silent Night
	53	139	Joy To World YankeeDoodle
	54 55	140 141	Clarnt Polka
	56	142	TaRaRaBoom
	57	143	Double Eagle
	58	144	Blauen Donau
	59	145	Yellow Rose
	60 LATIN	146	BeautDreamer
	61	147	Satellite
	62	148	Rio

			·
Group	Group	Sequential	
Name/	Number/	Number/	Preset Name/
Nombre	Número de	Número	Nombre de preajuste
del grupo	grupo	secuencial	Ague
	63 64	149 150	Aqua Single
	65	151	Sea Shore
	66	152	Poor Pitch
	67	153	Mountain
	68	154	Heartless
	69	155	Carnival
	70	156	Mythology
	71	157	Tico-Tico
	72	158	Beguine
	73 74	159 160	Amapola La Paloma
	75	161	Banana Boat
	76	162	Peanut
	77	163	A Cup Of
	78	164	Jamaica
	79	165	60's Movie 1
	80	166	60's Movie 2
	81	167	The No.5
	82	168	Everyday
	83	169	Kiss Me
	84 85	170 171	El Tango El Choclo
	85 86	1/1	Reggae 1
	87	172	Reggae 2
	88	174	Pop Reggae 1
	89	175	Pop Reggae 2
	90	176	Latin Rock 1
	91	177	Latin Rock 2
	92	178	Modern Latin
	COUNTRY		
	93	179	US Folk 1
	94	180	US Folk 2
	95 96	181 182	50's Country 70's Country
	97	183	60's Folk
	98	184	Tree
	99	185	A Friend
	100	186	Cowboy
	101	187	Country Bld1
	102	188	Country Bld2
	103	189	Country Bld3
	104 105	190 191	CountryWaltz Mdrn Country
3	100	131	
3	BALLAD	131	
3		192	Love Ballad
3	BALLAD		
3	BALLAD 1 2 3	192 193 194	Love Ballad R&B Ballad Soul Ballad
3	BALLAD 1 2 3 4	192 193 194 195	Love Ballad R&B Ballad Soul Ballad Blues Ballad
3	BALLAD 1 2 3 4 5	192 193 194 195	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1
3	BALLAD 1 2 3 4 5 6	192 193 194 195 196 197	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2
3	BALLAD 1 2 3 4 5 6 7	192 193 194 195 196 197 198	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3
3	BALLAD 1 2 3 4 5 6	192 193 194 195 196 197	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2
3	BALLAD 1 2 3 4 5 6 7 8	192 193 194 195 196 197 198	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad
3	BALLAD 1 2 3 4 5 6 7 8 9	192 193 194 195 196 197 198 199 200 201 202	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12	192 193 194 195 196 197 198 199 200 201 202 203	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13	192 193 194 195 196 197 198 199 200 201 202 203 204	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 3
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14	192 193 194 195 196 197 198 199 200 201 202 203 204 205	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 4 E World
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206	Love Ballad R&B Ballad Soul Ballad Blues Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206	Love Ballad R&B Ballad Soul Ballad Blues Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 3 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 1
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206	Love Ballad R&B Ballad Soul Ballad Blues Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208	Love Ballad R&B Ballad Soul Ballad Blues Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 1 Guitar Bld 2 Moon Waltz
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 2 Moon Waltz Theme
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211	Love Ballad R&B Ballad Soul Ballad Blues Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 2 Moon Waltz Theme Paradise 60's Ballad1 60's Ballad2
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 211 211 212	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 2 Moon Waltz Theme Paradise 60's Ballad1 60's Ballad2 Baroque Bld
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 1 Guitar Bld 2 Moon Waltz Theme Paradise 60's Ballad1 60's Ballad2 Baroque Bld FrenchBallad
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 211 212 213 214	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bid 1 Oldies Bid 1 Oldies Bid 2 Oldies Bid 3 Oldies Bid 4 E World Guitar Bid 1 Guitar Bid 1 Guitar Bid 2 Moon Waltz Theme Paradise 60's Ballad1 60's Ballad2 Baroque Bid FrenchBallad Everywhere
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 1 FrenchBallad1 60's Ballad1 60's Ballad1 Everywhere Wonderful
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	Love Ballad R&B Ballad Soul Ballad Blues Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 1 Guitar Bld 2 Moon Waltz Theme Paradise 60's Ballad1 60's Ballad2 Baroque Bld FrenchBallad Everywhere Wonderful 70's Ballad1
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 1 FrenchBallad1 60's Ballad1 60's Ballad1 Everywhere Wonderful
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218	Love Ballad R&B Ballad Soul Ballad Blues Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 2 Moon Waltz Theme Paradise 60's Ballad1 60's Ballad2 Baroque Bld FrenchBallad Everywhere Wonderful 70's Ballad1 70's Ballad2
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 211 212 213 214 215 216 217 218 219 220 221	Love Ballad R&B Ballad Soul Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 2 Moon Waltz Theme Paradise 60's Ballad1 60's Ballad2 Baroque Bld FrenchBallad Everywhere Wonderful 70's Ballad2 70's Ballad3 My Song Peace
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221	Love Ballad R&B Ballad Soul Ballad Blues Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 2 Moon Waltz Theme Paradise 60's Ballad1 60's Ballad2 Baroque Bld FrenchBallad Everywhere Wonderful 70's Ballad2 70's Ballad3 My Song Peace Without
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222	Love Ballad R&B Ballad Soul Ballad Blues Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 2 Moon Waltz Theme Paradise 60's Ballad1 60's Ballad2 Baroque Bld FrenchBallad Everywhere Wonderful 70's Ballad2 70's Ballad3 My Song Peace Without Soundtrack
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 24 25 26 27 28 29 30 31 31 32 33	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 211 212 213 214 215 216 217 218 219 220 221	Love Ballad R&B Ballad Soul Ballad Blues Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 2 Moon Waltz Theme Paradise 60's Ballad1 60's Ballad2 Baroque Bld FrenchBallad Everywhere Wonderful 70's Ballad1 70's Ballad2 70's Ballad3 My Song Peace Without Soundtrack Soft Ballad
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224	Love Ballad R&B Ballad Soul Ballad Blues Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 1 Guitar Bld 2 Moon Waltz Theme Paradise 60's Ballad1 60's Ballad2 Baroque Bld FrenchBallad Everywhere Wonderful 70's Ballad2 70's Ballad3 My Song Peace Without Soundtrack Soft Ballad Memories
3	BALLAD 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 24 25 26 27 28 29 30 31 31 32 33	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 211 212 213 214 215 216 217 218 219 220 221	Love Ballad R&B Ballad Soul Ballad Blues Ballad Blues Ballad MovieBallad1 MovieBallad2 MovieBallad3 Xmas Ballad Love Me Oldies Bld 1 Oldies Bld 2 Oldies Bld 3 Oldies Bld 3 Oldies Bld 4 E World Guitar Bld 1 Guitar Bld 2 Moon Waltz Theme Paradise 60's Ballad1 60's Ballad2 Baroque Bld FrenchBallad Everywhere Wonderful 70's Ballad1 70's Ballad2 70's Ballad3 My Song Peace Without Soundtrack Soft Ballad

roup ame/ ombre grupo	Group Number/ Número de grupo	Sequential Number/ Número secuencial	Preset Name/ Nombre de preajuste
0 1	37	228	Pop Ballad 2
	38	229	PianoBallad1
	39	230	PianoBallad2
	40	231	Musical Bld
	41	232	R Ballad
	42 43	233 234	Love Song 80's Ballad1
	44	235	80's Ballad2
	45	236	80's Ballad3
	46	237	80's Ballad4
	47	238	Friends
	48	239	Rock Ballad1
	49	240	Rock Ballad2
	50	241	Two Flames
	51	242	90's Ballad1
	52	243	90's Ballad2
	53 54	244 245	90's Ballad3 90's SoulBld
	55	246	I Always
	56	247	6/8 Ballad
	57	248	Wind Ballad
	58	249	90's 6/8 Bld
	59	250	My Ballad
	60	251	MdrnSoulBld1
	61	252	MdrnSoulBld2
	62	253	Mdrn Pf Bld
	63	254	Rap Ballad
	64	255	Dance Ballad
	65	256	MdrnRock Bld
	66 67	257 258	Slow Ballad 90's R&B Bld
	JAZZ	230	90 S FIXED DIG
	68	259	My Swing
	69	260	Your Things
	70	261	Angel
	71	262	Time Passes
	72	263	Piano Trio
	73	264	Goodbye
	74	265	Marine Dance
	75 76	266	Vine Days TraneChanges
	77	267 268	RhythmChange
	78	269	Swing Mood
	79	270	The Big Mood
	80	271	Brown Jug
	81	272	Jazz Club
	82	273	All Day Long
	83	274	Avenue
	84	275	Big Band 1
	85	276	Big Band 2
	86	277	Jazz Waltz 1
	87	278	Jazz Waltz 2 Jazz Waltz 3
	88 89	279 280	Mode Jazz
	90	281	Tea Time
	91	282	Welcome Home
	92	283	Jazz Opera
	93	284	NY City
	94	285	Soul & Jazz
	95	286	Loneliness
	96	287	Foggy
	97	288	Moon Swing
	98	289	Jazz Ballad1
	99	290	Jazz Ballad2
	100 101	291 292	Jazz Ballad3 PatheticTrip
	101	292	Night Sky
	102	293	Twillight
	104	295	Blues in F
	105	296	Blues in Bb
	106	297	Blues in C
	107	298	II-V
	108	299	II-V-I
	109	300	Minor Blues

Song List/Lista de canciones

Group	Group Number/	Sequential Number/	
Name/ Nombre	Número de	Número	Song Name/ Nombre de la canción
del grupo	grupo	secuencial	
А	001	001	Nocturne Op.9-2
	002	002	Fantaisie-Impromptu Op.66
	003	003	Étude Op.10-3 "Chanson de l'adieu"
	004	004	Étude Op.10-5 "Black Keys"
	005 006	005	Étude Op.10-12 "Revolutionary" Étude Op.25-9 "Butterflies"
	006	006 007	Prélude Op.28-7
	008	008	Valse Op.64-1 "Petit Chien"
	009	009	Valse Op.64-2
	010	010	Moments Musicaux 3
	011	011	Impromptu Op.90-2
	012 013	012 013	Marche Militaire 1 (Duet) Frühlingslied [Lieder Ohne Worte Heft 5]
	013	013	Fröhlicher Landmann
	-	-	[Album fur die Jugend] Von fremden Ländern und Menschen
	015	015	[Kinderszenen]
В	016	016	Träumerei [Kinderszenen]
	001	017	Tambourin
	002	018	Menuet BWV Anh.114 [Clavierbüchlein der Anna Magdalena Bach]
	003	019 020	Inventio 1 BWV 772 Inventio 8 BWV 779
	004	020	Inventio 6 BWV 779
	006	022	Praeludium 1 BWV 846
			[Das Wohltemperierte Klavier 1]
	007	023	Le Coucou
	008	024 025	Gavotte Sonatina Op.36-1 1st Mov.
	010	026	Sonatine Op.20-1 1st Mov.
	011	027	Sonate K.545 1st Mov.
	012	028	Sonate K.331 3rd Mov. "Turkish March"
	013 014	029	Rondo K.485 Für Elise
	014	030	Marcia alla Turca
	016	032	Sonate Op.13 "Pathétique" 1st Mov.
	017	033	Sonate Op.13 "Pathétique" 2nd Mov.
	018	034	Sonate Op.13 "Pathétique" 3rd Mov.
	019	035	Sonate Op.27-2 "Moonlight" 1st Mov.
	020 021	036 037	Rhapsodie 2 Waltz Op.39-15 (Duet)
С	OZI	007	Walle Op.00 10 (Buct)
	001	038	Liebesträume 3
	002	039	Blumenlied
	003 004	040 041	La Prière d'une Vierge Csikos Post
	004	041	Humoresque Op.101-7
	006	043	Melodie [Lyrische Stucke Heft 2]
	007	044	Sicilienne Op.78
	800	045	Berceuse [Dolly] (Duet)
	009	046 047	Arabesque 1 La Fille aux Cheveux de Lin [Préludes]
	010 011	047	Passepied [Suite bergamasque]
	012	049	Gymnopédie 1
	013	050	Je Te Veux
	014	051	Salut d'Amour
	015	052	The Entertainer
	016 017	053 054	Maple Leaf Rag L'arabesque [25 Etüden Op.100]
	017	055	La Styrienne [25 Etüden Op.100]
	019	056	Ave Maria [25 Etüden Op.100]
	020	057	Le retour [25 Etüden Op.100]
	021	058	La chevaleresque [25 Etüden Op.100]

Group Name/ Nombre del grupo	Group Number/ Número de grupo	Sequential Number/ Número secuencial	Song Name/ Nombre de la canción
	022	059	No.13 [Études de Mécanisme Op.849]
	023	060	No.26 [Études de Mécanisme Op.849]

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 ^b 5 *3	
C7 ⁶ 5 *3	
C7sus4	
Cadd9	
Cmadd9	
CmM7	
Cdim7 *3	
C69 *3	
C6 *1 *3	
Cm6 *2 *3	

- *1 With Fingered 2, interpreted as Am7.
- *2 With Fingered 2, interpreted as Am7^b5.
- *3 Inverted form not supported in some cases.
- *1 Con Fingered 2, se interpreta como Am7.
- *2 Con Fingered 2, se interpreta como Am7°5.
- *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

В							0													
(A [#])/B♭																				
<																				
(G#)/A [♭]																				
g																		9		
F♯/(G♭)										0										
ц																				
В		•						•												
(D#)/E♭																				
D												•								
C♯/(D♭)			•							0										
O													0							
Root Chord Type	Σ	E	dim	aug	sus4	sus2	7		M7	m7 ⁶⁵	242	7sus4	add9	madd9	mM7	dim7	69	9	9ш	

• 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.

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Model AP-650M

MIDI Implementation Chart

Version: 1.0

Fun	Function	Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 - 16 1 - 16	1 - 16 1 - 16	
	Default Messages Altered	Mode 3 X ****	Mode 3 X 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
	Key's Ch's	××	×o	
Pitch Bender		×	0	
Control	26. 0. 88. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0××00×××××0×0	0000000000000	Bank select Modulation Portamento Time Data entry LSB, MSB*2 Data entry LSB, MSB*2 Parmeter0*2 DSP Parameter1*2 DSP Parameter1*2 DSP Parameter2*2 DSP Parameter2*2 DSP Parameter3*2 DSP Parameter

:
si desea mas informacion, vea implementacion MiDI en <u>nttp://world.casio.com/</u> .

Mode 1 : OMNI ON, POLY Mode 2 : OMN Mode 3 : OMNI OFF, POLY Mode 4 : OMN

Mode 2: OMNI ON, MONO Mode 4: OMNI OFF, MONO

O:Yes X:No



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