

Privia PX-135

ES

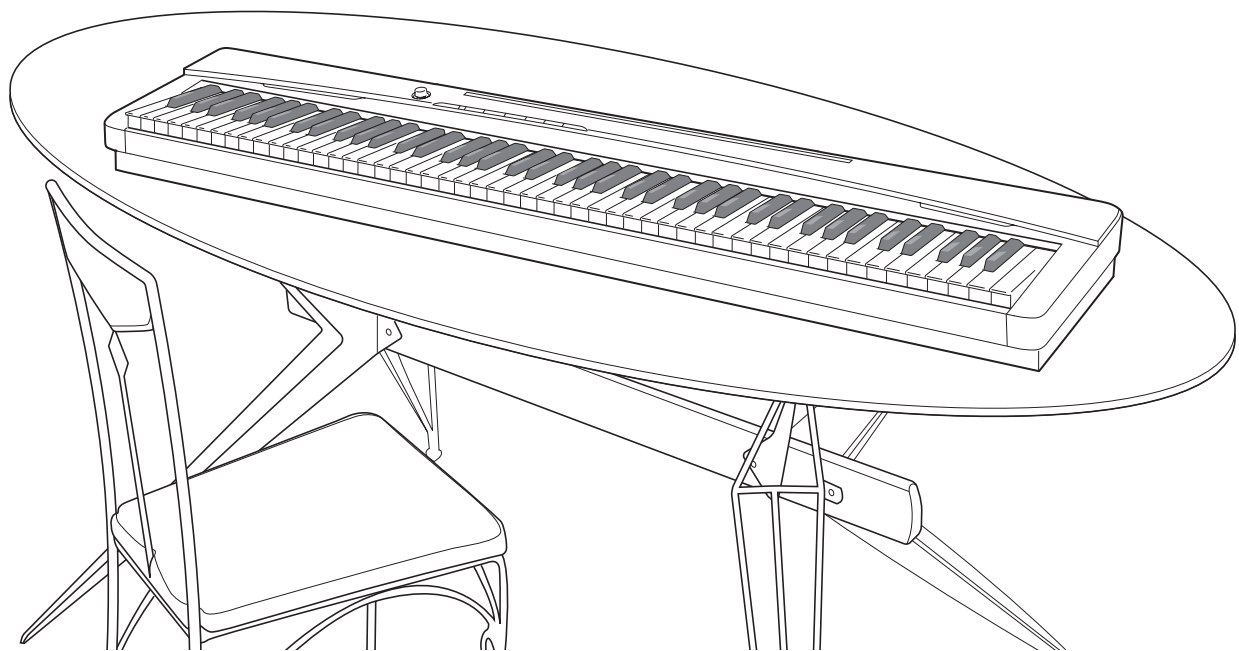
English

Español

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

Precauciones de seguridad

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

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
 2. Keep these instructions.
 3. Heed all warnings.
 4. 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: PX-135
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-A12150LW 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-A12150LW adaptor.
- The AC adaptor is not a toy.
- Be sure to disconnect the AC adaptor before cleaning the product.



This mark applies in EU countries only.



Manufacturer:
CASIO COMPUTER CO.,LTD.
6-2, Hon-machi 1-chome, Shibuya-ku, Tokyo 151-8543, Japan
Responsible within the European Union:
CASIO EUROPE GmbH
Casio-Platz 1, 22848 Norderstedt, Germany

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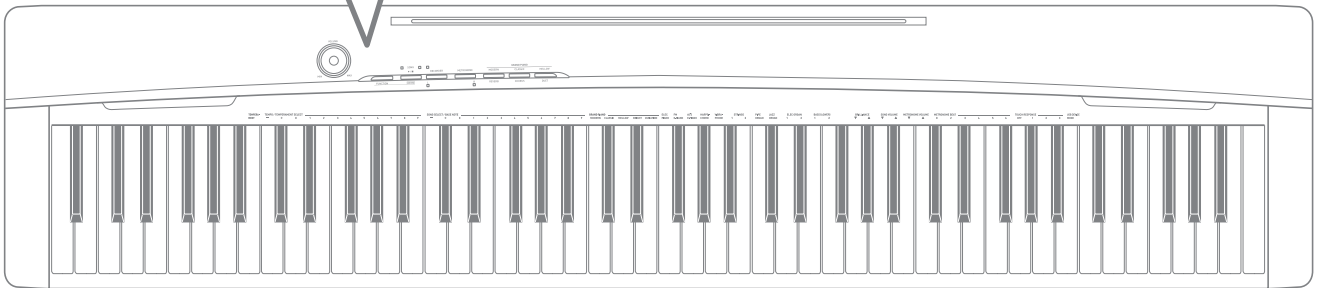
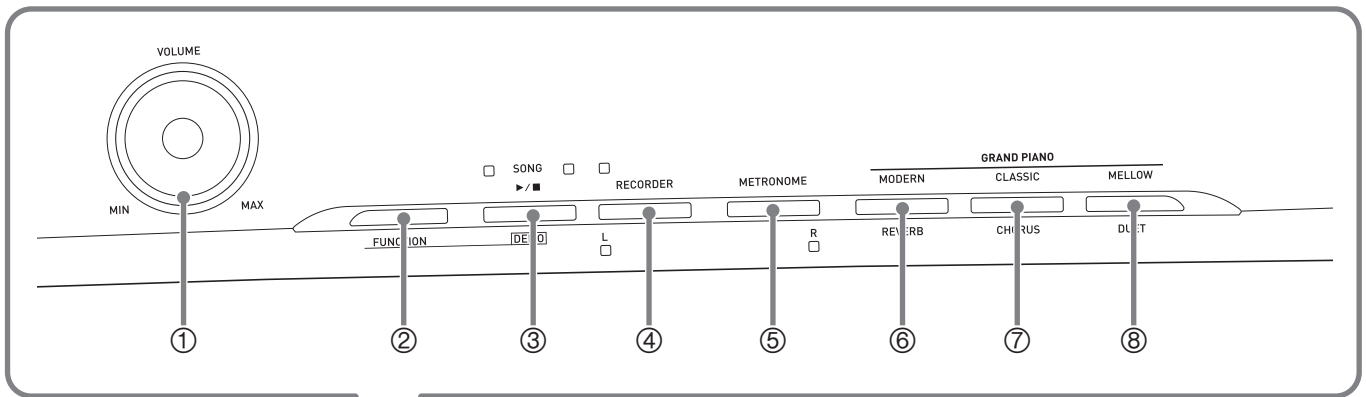
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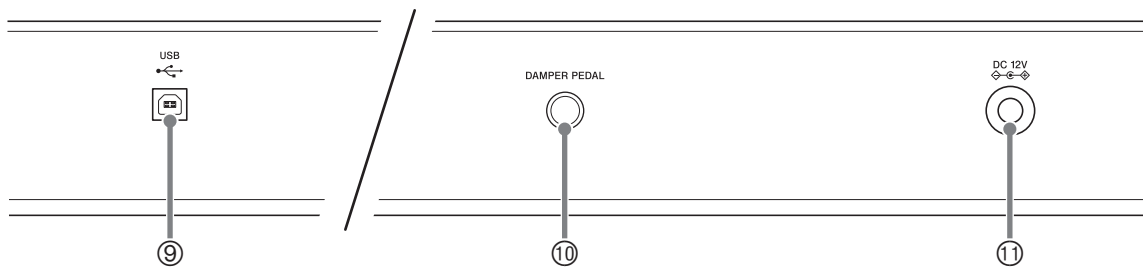
MIDI Implementation Chart

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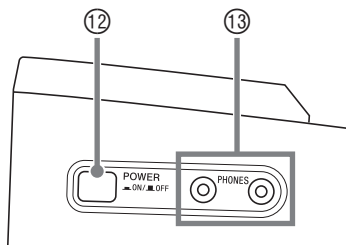
General Guide



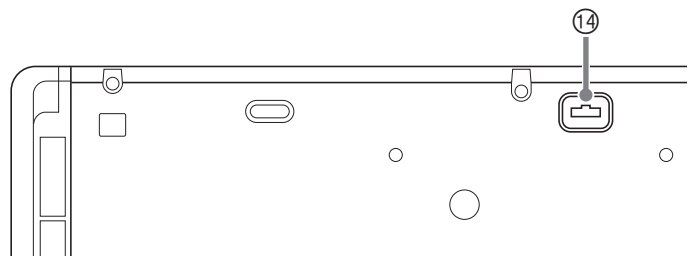
Back



Left Side

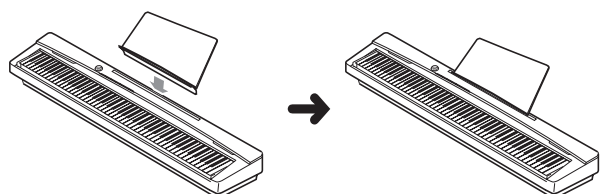


Bottom



Installing the Music Stand

Insert the bottom of the music stand into the groove on the top of the digital piano's console.



NOTE

• The names shown here are always indicated in bold when they appear within the text of this manual.

- ① **VOLUME** controller
- ② **FUNCTION** button
- ③ **SONG** ▶/■, **DEMO** button
- ④ **RECORDER (L)** button
- ⑤ **METRONOME (R)** button
- ⑥ **GRAND PIANO (MODERN)**, **REVERB** button
- ⑦ **GRAND PIANO (CLASSIC)**, **CHORUS** button
- ⑧ **GRAND PIANO (MELLOW)**, **DUET** button
- ⑨ **USB** port
- ⑩ **DAMPER PEDAL** jack
- ⑪ **DC 12V** terminal
- ⑫ **POWER** button
- ⑬ **PHONES** jacks
- ⑭ Pedal connector

FUNCTION Button

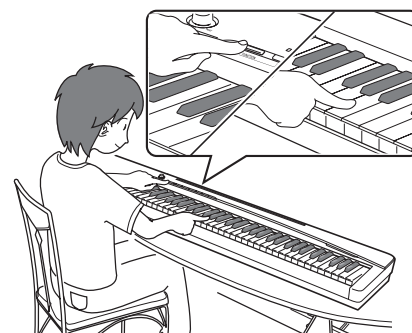
The **FUNCTION** button is used when configuring a variety of different digital piano settings. The following are **FUNCTION** button basics.

- To change a setting, hold down the **FUNCTION** button as you press the keyboard key that is assigned the setting you want to select. An operation confirmation tone will sound whenever you press a keyboard key to configure a setting.

Example: "To select a tone" on page E-7

NOTE

- For details about operations and settings, see "Configuring Settings with the Keyboard" on page E-19.



- The following table shows how pressing the **FUNCTION** button changes the operation of certain buttons.

This button:	Does this while FUNCTION button is depressed:
SONG ▶/■	Starts and stops demo tune play.
RECORDER	Selects the left-hand part.
METRONOME	Selects the right-hand part.
MODERN	Toggles Reverb on (button lamp lit) and off (lamp unlit).
CLASSIC	Toggles Chorus on (button lamp lit) and off (lamp unlit).
MELLOW	Toggles Duet on (button lamp lit) and off (lamp unlit).

Saving Settings and Using Operation Lock

Your digital piano lets you save its current settings and lock its buttons to protect against operation errors. For details, see "Parameter List" on pages E-21 - E-23.

Power Outlet

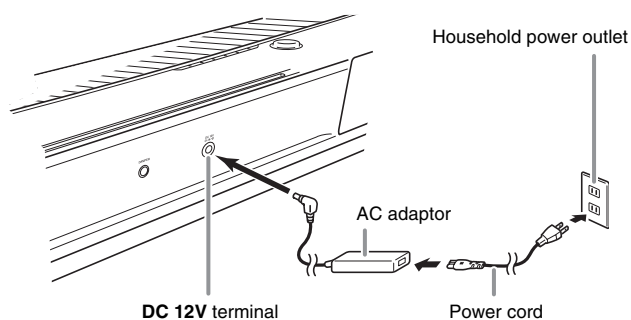
Your digital piano runs on standard household power. Be sure to turn off power whenever you are not using the digital piano.

Using an AC Adaptor

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

Specified AC Adaptor: AD-A12150LW

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



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

During Use

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

During Movement

- Before moving the digital piano, be sure to unplug the AC adaptor from the power outlet.

During Storage

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



IMPORTANT!

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

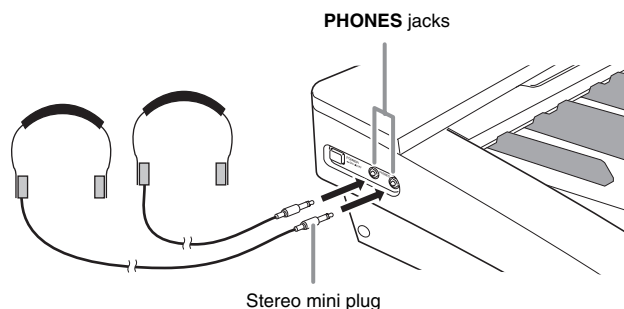
Connections

IMPORTANT!

- Whenever connecting something 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.

Connecting Headphones

Left side



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.

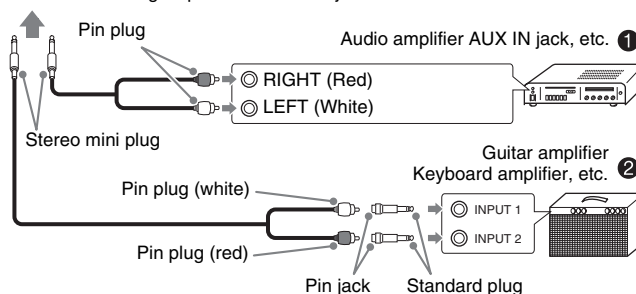
NOTE

- 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.

To either of the digital piano's **PHONES** jack



Connecting Audio Equipment (Figure ❶)

Use commercially available connecting cords (Mini Plug × 1, Pin Plugs × 2) to connect as shown in Figure ❶. Make sure that the end of the cord that you connect to the digital piano is a stereo mini plug. A monaural standard plug will result in output of only one of the two stereo channels. Normally, you should set the input selector of the audio equipment to the terminal where the digital piano is connected (AUX IN, etc.) Adjust volume using the digital piano's **VOLUME** controller.

Connecting a Music Amplifier (Figure ❷)

Connect the connecting cord* to one of the types of amplifiers shown in Figure ❷.

Adjust volume using the digital piano's **VOLUME** controller.

- * Digital Piano: Stereo mini plug
- Amplifier : Inputs signals for the left and right channels. Not connecting either plug will result in output of only one of the two stereo channels.

Connecting a Pedal

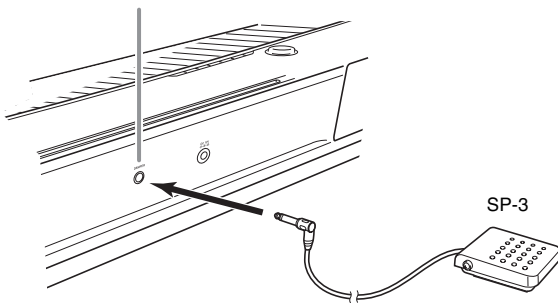
Connecting the supplied pedal (SP-3) to the **DAMPER PEDAL** jack makes it possible to use the pedal as a damper pedal.

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

- When a GRAND PIANO tone (MODERN, CLASSIC, MELLOW, BRIGHT, VARIATION) is selected as the tone, pressing this pedal will cause notes to reverberate just like the damper pedal on an acoustic grand piano.

Back

DAMPER PEDAL jack

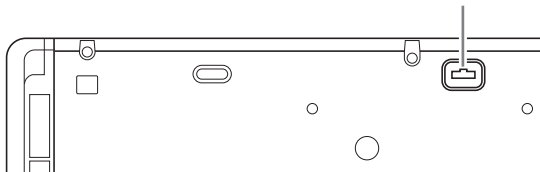


Pedal Connector

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

Bottom

Pedal connector



SP-32 Pedal Functions

● Damper Pedal

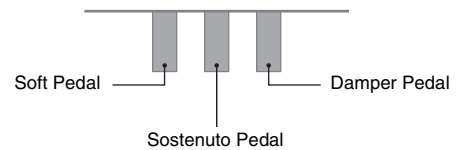
In addition to the damper pedal functions described in the column to the left, the SP-32 pedal also supports half-pedal operation, so pressing the pedal part way applies only a partial damper effect.

● Soft Pedal

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

● Sostenuto Pedal

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



NOTE

- The optional CS-67P stand is required in order to use the SP-32 Pedal Unit.

Bundled and Optional Accessories

Use only accessories that are specified for use with this digital piano.

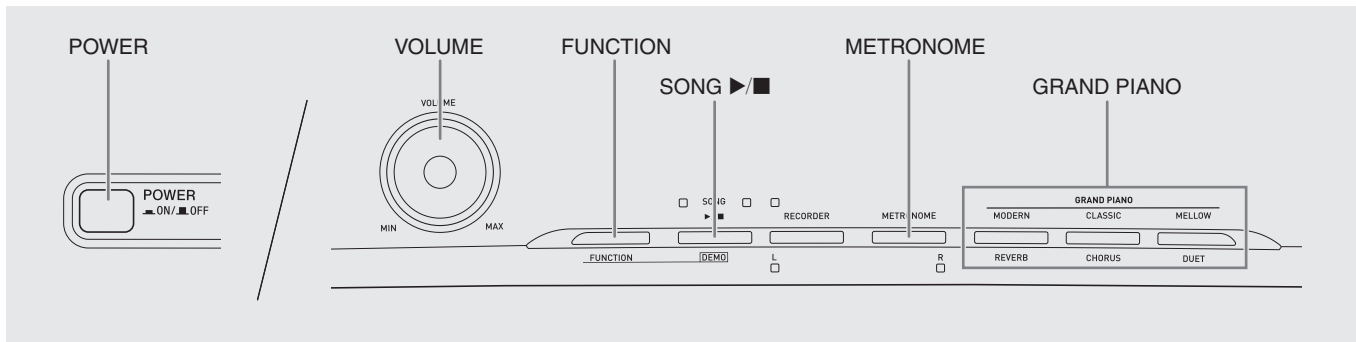
Use of unauthorized accessories creates the risk of fire, electric shock, and personal injury.

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.

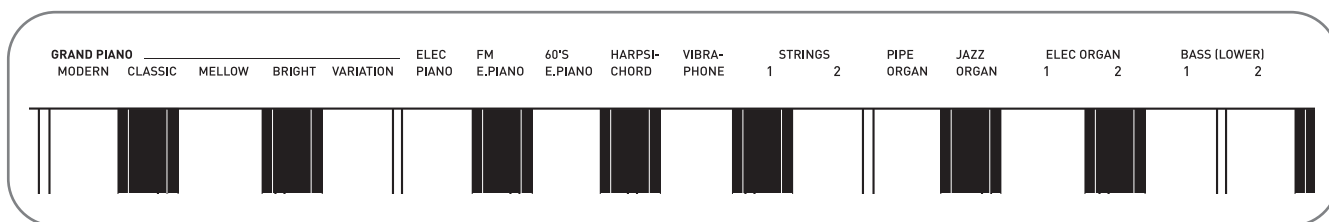
<http://world.casio.com/>

Playing with Different Tones



Selecting and Playing a Tone

The piano comes with 18 built-in tones.



- The names of the tones are marked above the keyboard keys to which they are assigned.

To select a tone

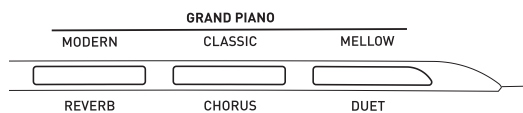
1. Press the **POWER** button.

IMPORTANT!

- When you turn on the digital piano, it performs a power up operation in order to initialize its system. During system initialization the tone button lamps cycle on and off in the sequence for about seven seconds to let you know that system initialization is in progress.

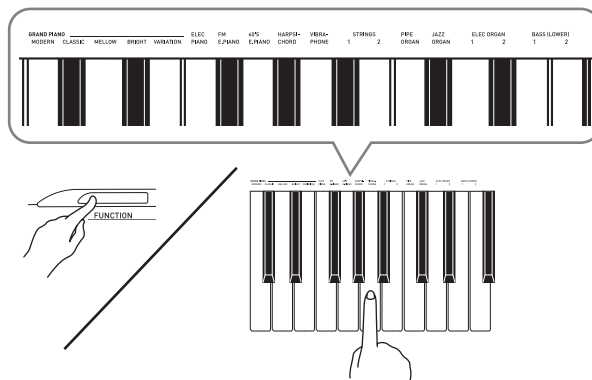
2. Select the tone you want.

- To select GRAND PIANO (MODERN, CLASSIC, MELLOW)
 - Press one of the **GRAND PIANO** buttons: **MODERN, CLASSIC, MELLOW.**



- The button lamp of the selected tone will light.

- To select one of the other tones
 - While holding down the **FUNCTION** button, press the keyboard key that corresponds to the tone you want to select.



3. Use the **VOLUME** controller to adjust the volume.

NOTE

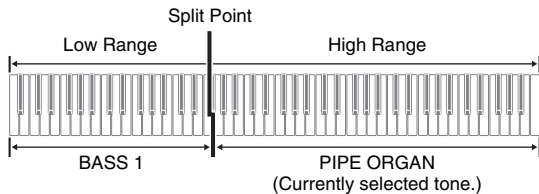
- Of the Digital Piano's 18 built-in tones, the first five are grand piano tone. Each tone has its own distinctive merits, so you should select the tone that suits the song you are playing along with or your own personal preferences. The MODERN, CLASSIC, and MELLOW tones are assigned to buttons for quick and easy selection.

Tone Name	Characteristics
MODERN	This tone provides a bright grand piano sound. The volume and timbre of this tone is quick to respond to different keyboard pressures, and it has relatively strong reverb. This tone is a good choice for dynamic and lively performances.
CLASSIC	This is a natural piano tone that closely resembles the sound of an acoustic grand piano. Reverb and other effects are kept to a minimum in order to enhance the impact of piano pedals operations (acoustic resonance), for musically delicate expressions. This tone is a good choice for lesson and practice sessions.
MELLOW	Warm and mellow piano tone
BRIGHT	Bright and clear piano tone
VARIATION	Piano tone optimized for playing along with accompaniment

Bass Tones (BASS 1, BASS 2)

Selecting either of the two BASS (LOWER) tones (1 or 2) in step 2 of the above procedure will assign the selected bass tone to the low range (left side) of the keyboard. The high range (right side) will be assigned the tone that was selected when you pressed the BASS 1 or BASS 2 key.

- BASS 1 and BASS 2 let you effectively split the keyboard between two different tones.

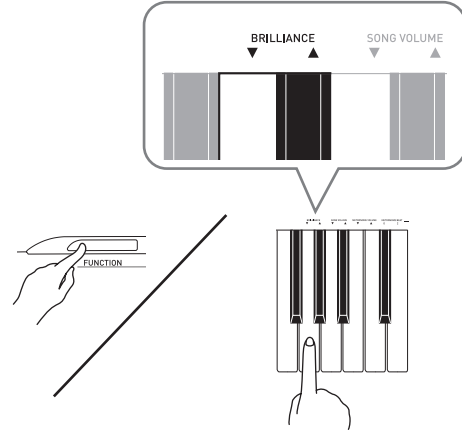


NOTE

- To return the keyboard to a single tone, select any tone other than BASS 1 or BASS 2.
- You cannot select BASS 1 or BASS 2 when recording to Track 2.

To adjust the brilliance of a tone

1. While holding down the **FUNCTION** button, use the **BRILLIANCE** keys to specify a brilliance value in the range of -3 to 0 to 3.



For this type of sound:	Press this keyboard key:
Mellower and softer	▼
Brighter and harder	▲

NOTE

- To return a tone to its initial default setting "0", press ▼ and ▲ at the same time.

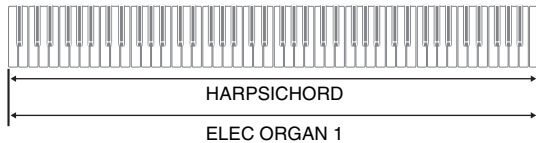
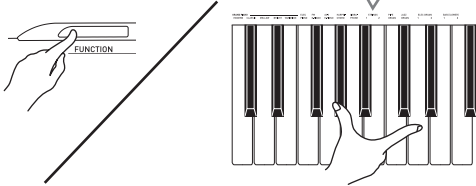
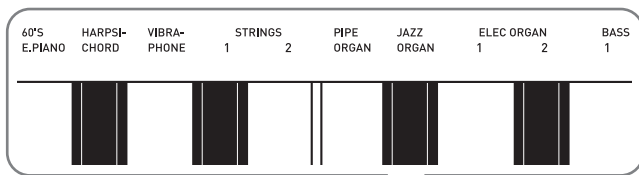
Layering Two Tones

Use the following procedure to layer two tones, so they sound at the same time.

When specifying two tones for layering, first tone you select will be the main tone, while the second tone will be the layered tone.

1. While holding down the **FUNCTION** button, hold down the keyboard key for the main tone as you press the keyboard key for the layered tone.

Example: To layer HARPSICHORD and ELEC ORGAN 1



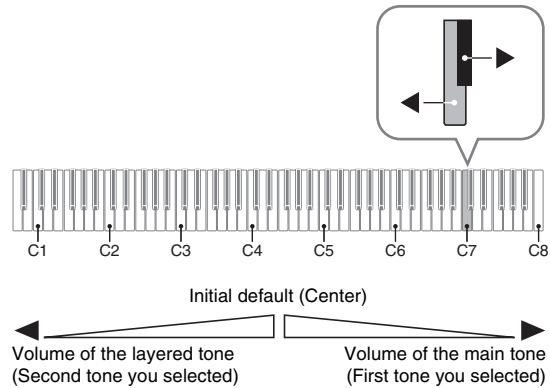
2. To unlayer the keyboard, select another tone by pressing the **GRAND PIANO** button or by using the procedure under "Selecting and Playing a Tone" (page E-7).

NOTE

- You cannot layer the BASS 1 or BASS 2 tone with another tone.
- You cannot perform the layer operation when recording to Track 2.

To adjust the volume balance between two layered tones

1. While holding down the **FUNCTION** button, use the keyboard keys shown below to adjust the volume of the layered tones.



- To return the volume setting to its initial default, hold down the **FUNCTION** button and press both of the keys at the same time.

Using Effects

Reverb : Makes your notes resonate.

Chorus: Adds more breadth to your notes.

To turn reverb on and off

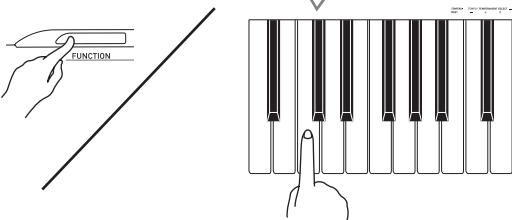
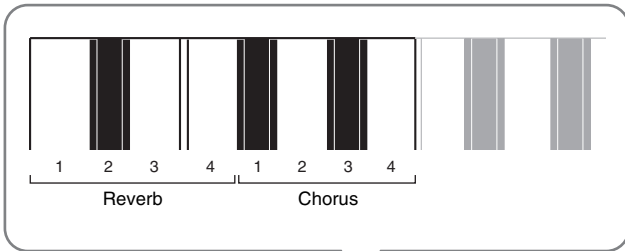
1. While holding down the **FUNCTION** button, press the **MODERN** button to toggle reverb on (lamp lit) and off (lamp unlit).

To turn chorus on and off

1. While holding down the **FUNCTION** button, press the **CLASSIC** button to toggle chorus on (lamp lit) and off (lamp unlit).

To configure reverb and chorus effect settings

1. While holding down the **FUNCTION** button, press one of the Reverb or Chorus keyboard keys.



Example: Selecting Reverb 4

- Reverb Value

To do this:	Select this setting:
Turn on reverb	1: Room 2: Small Hall 3: Large Hall 4: Stadium

- Chorus Value

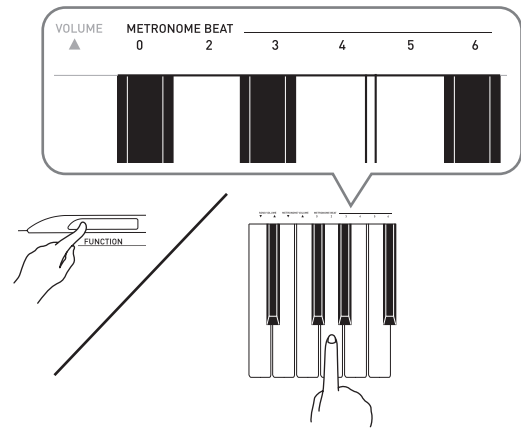
To do this:	Select this setting:
Turn on chorus	1: Light Chorus 2: Medium Chorus 3: Deep Chorus 4: Flanger (Whooshing effect)

About DSP

DSP makes it possible to digitally produce complex acoustic effects. The DSP is assigned to each tone whenever you turn on digital piano power.

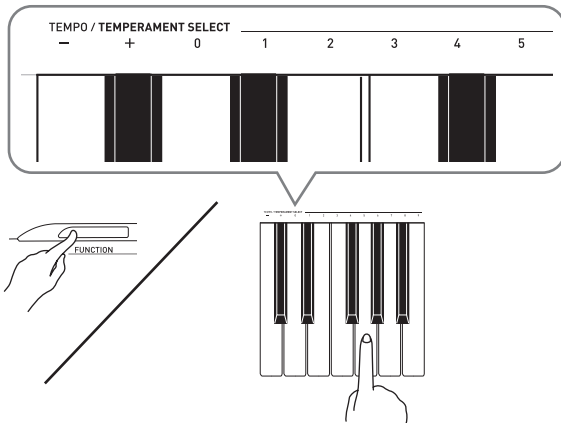
Using the Metronome

1. Press the **METRONOME** button.
 - This starts the metronome.
 - The lamp above the **SONG** ►/■ button flash in time with the metronome beat.
2. To change the beat, hold down the **FUNCTION** button as you press one of the **METRONOME BEAT** keys to select a beat setting.



- You can specify beats per measure value of 0, 2, 3, 4, 5, or 6. Specifying 0 as the setting plays a straight click, without any chime. This setting lets you practice with a steady beat.

3. While holding down the **FUNCTION** button, use the **TEMPO** keys to specify a tempo value in the range of 20 to 255 beats per minute.



- Each press of the + or – key raises or lowers the tempo value by 1.
- You can use the value input keys (0 to 9) to enter a specific three-digit. Be sure to input all three digits.

Example: To enter “96”, press keys 0, 9, 6.

4. Press the **METRONOME** button or **SONG** ►/■ button to turn off the metronome.

NOTE

- To return the tempo setting to the default tempo of the currently selected Music Library tune, press the + and – keys at the same time in step 3. Pressing + and – while recording will return the tempo value to 120.

To adjust the metronome volume

NOTE

- You can perform the following procedure at any time, regardless of whether or not the metronome is sounding.

1. While holding down the **FUNCTION** button, use the **METRONOME VOLUME** keys to specify a volume value in the range of 0 to 42.
 - For details about using the keyboard keys for settings, see “Keyboard Keys Used for Configuring Settings” on page E-20.
 - Each press of the ▼ or ▲ key raises or lowers the metronome volume value by 1.

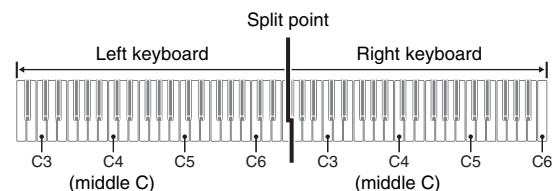
NOTE

- To return to the initial default setting, press ▼ and ▲ at the same time.

Playing a Piano Duet

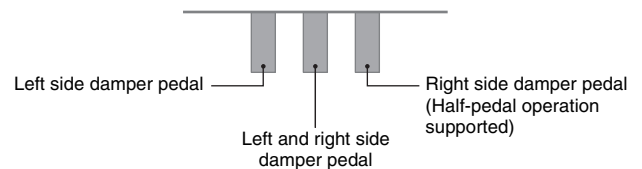
You can use the Duet Mode to split the piano’s keyboard in the center so two people can play a duet. This makes it possible to configure the keyboard so, for example, the teacher can play on the left and the student can follow along on the right. Or one person can play the left hand part on the left,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

Keyboard



Pedal Operation when Playing a Duet

• Optional SP-32 Pedal Unit



NOTE

- Only the damper pedal for the right side keyboard supports half-pedal operations.

• Optional SP-3 Pedal Unit

To use the SP-3 Pedal Unit as the right keyboard damper pedal, connect it to the **DAMPER PEDAL** jack.

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

1. Select the piano tone you want to use for the duet.

Example: GRAND PIANO (MODERN)

2. While holding down the **FUNCTION** button, press the **GRAND PIANO (MELLOW)** button to toggle duet on (lamp lit) and off (lamp unlit).

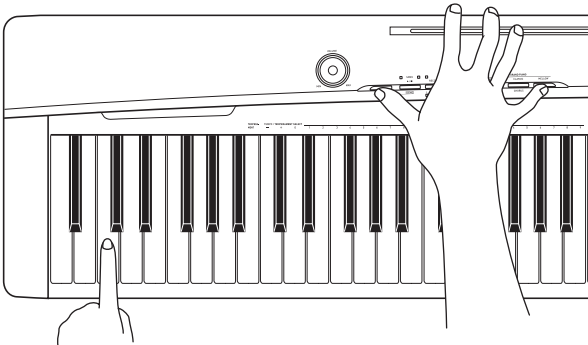
IMPORTANT!

- You cannot use the Duet Mode while recording (page E-15).

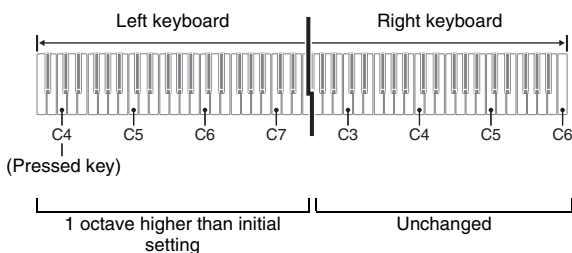
Changing the Octaves of the duet keyboards

You can change the ranges of the left and right keyboards in octave units from their initial default settings. This comes in handy, for example, if the initial default range is not enough when one person is playing the left hand part and another person is playing the right hand part.

1. While holding down the **FUNCTION** and **GRAND PIANO (MELLOW)** buttons, press the keyboard C key that you want located at C4 (middle C) of the left keyboard.



Example: Press the keyboard key of the leftmost C (C4) will assign the range shown below.

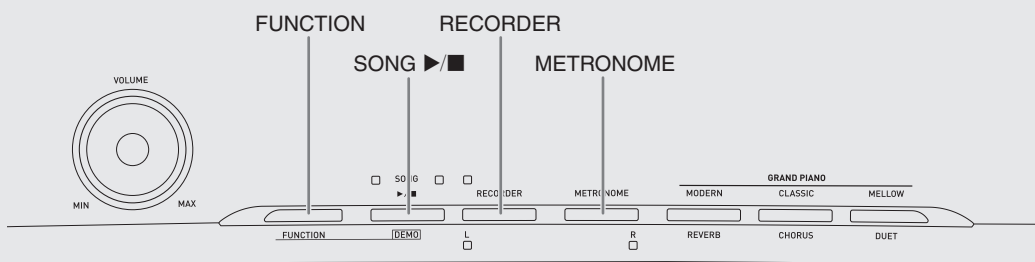


2. While holding down the **FUNCTION** and **GRAND PIANO (MELLOW)** buttons, press the keyboard C key that you want located at C4 (middle C) of the right keyboard.

NOTE

- You can return the keyboards to their initial default ranges by exiting and then re-entering the Duet Mode.

Playing Back Built-in Songs



Your digital piano comes with a Music Library of 60 built-in tunes. You can play all 60 tunes in sequence, from beginning to end.

IMPORTANT!

- After you select a built-in song, it can take a number of seconds for the song data to be loaded. While the data is being loaded, the keyboard keys and button operations will be disabled. If you are playing something on the keyboard, the following operation will cause output to stop.

Playing Back All of the Built-in Songs

1. While holding down the **FUNCTION** button, press the **SONG** ►/■ button.
 - This will start repeat demo playback of the built-in songs in sequence, from 01 through 60.
 - You can play along with a song on the keyboard as it is playing. The tone assigned to the keyboard is the one that is preset for the song that is playing.
 - You can select a specific song during demo playback. For details, see step 2 under “Playing Back a Specific Music Library Song”.
2. Press the **SONG** ►/■ button again to stop built-in song play.

NOTE

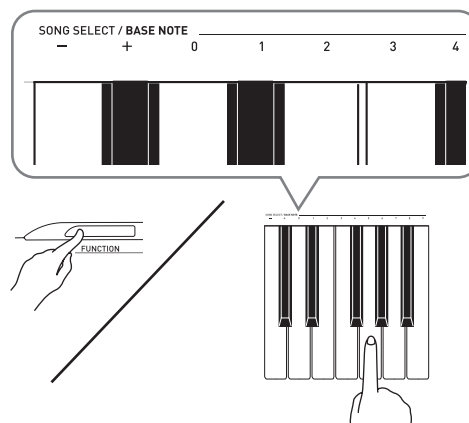
- The tune selection and playback stop operations described above are the only operations that are possible during demo tune play.

Playing Back a Specific Music Library Song

The Music Library includes both built-in songs (01 to 60), plus one song (61) that have been saved to digital piano memory from a computer*. You can use the procedure below to select one of these songs and play it back.

- * You can download music data from the Internet and then transfer it from your computer to digital piano memory. See “Transferring Song Data with a Computer” on page E-25 for more information.

1. Find the song number of the song you want to play in the song list on page A-1.
2. To change to another song, hold down the **FUNCTION** button as you use the **SONG SELECT** keys to specify a song number.



- Each press of the + or – key raises or lowers the song number by 1.
- You can use the value input keys (0 to 9) to enter a specific two-digit song number. Be sure to input both digits.

Example: To select song 08, enter 0 and then 8.

3. Press the **SONG ▶/■** button.

- This starts the playback of the song.

4. To stop playback, press the **SONG ▶/■** button again.

- Playback will stop automatically when the end of the song is reached.

NOTE

- Pressing the + and – keys at the same time will select song number 01.
- You also can adjust the playback tempo and volume of the song. See “Configuring Settings with the Keyboard” on page E-19 for more information.

Practicing with a Music Library Song

You can turn off the left hand part or right hand part of a song and play along on the piano.

NOTE

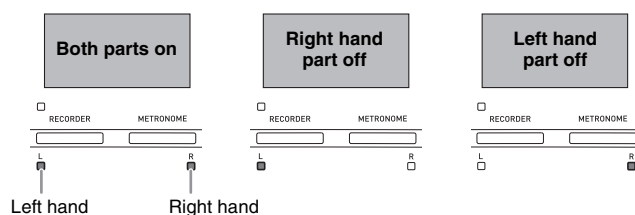
- The Music Library includes a number of duets. While a duet is selected, you can turn off the first piano <Primo> or second piano <Secondo> tone and play along with the song.

PREPARATION

- Select the song you want to practice and adjust the tempo. See “Configuring Settings with the Keyboard” on page E-19.
- A number of tunes have tempo changes part way through in order to produce specific musical effects.

1. While holding down the **FUNCTION** button, press the **RECORDER (L)** button or **METRONOME (R)** button to select the part you want to turn off.

- Pressing a button toggles its part on (button lamp on) and off (button lamp off).



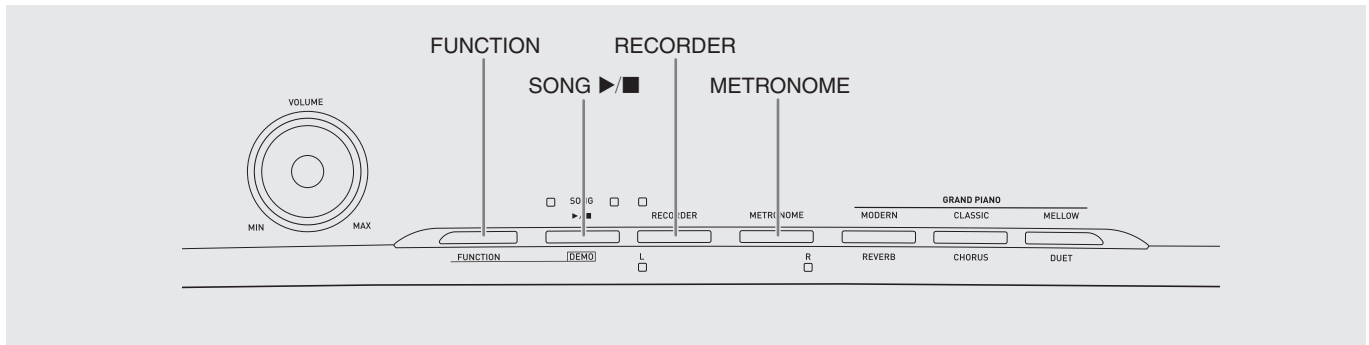
2. Press the **SONG ▶/■** button.

- This starts playback, without the part you turned off in step 1.

3. Play the missing part on the keyboard.

4. To stop playback, press the **SONG ▶/■** button again.

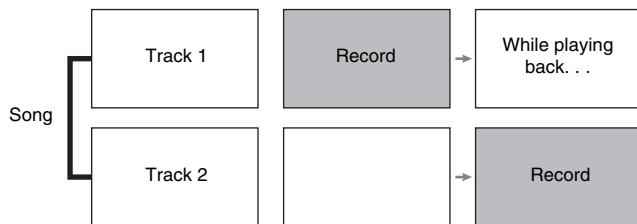
Recording and Play Back



You can store the notes you play in digital piano memory for later playback.

Tracks

A track is a container of recorded data, and a song consists of two tracks: Track 1 and Track 2. You can record each track separately and then combine them so they play back together as a single song.



Memory Capacity

- You can record approximately 5,000 notes in digital piano memory.
- The **RECORDER** button lamp will flash at high speed when memory runs low.
- Recording stops automatically if the number of notes in memory exceeds the maximum.

Recorded Data

- Keyboard play
- Tone used
- Pedal operations
- Reverb and chorus settings (Track 1 only)
- Tempo setting (Track 1 only)
- Layer setting (Track 1 only)
- Split setting (Track 1 only)
- Temperament and base note settings (Track 1 only)
- Octave shift setting (Track 1 only)

Recording Data Storage

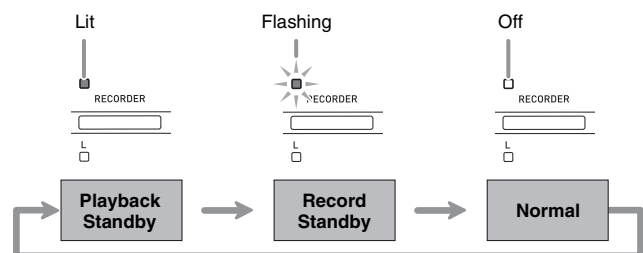
- Starting a new recording deletes any data that was previously recorded in memory.
- If power to the Digital Piano is cut off while recording is in progress, everything you recorded up to that point will be deleted. Take care so power is not turned off accidentally during recording operations.

IMPORTANT!

- CASIO COMPUTER CO., LTD. takes no responsibility for any damages, lost profits, or claims by third parties arising from the deletion of recorded data due to malfunction, repair, or for any other reason.

Using the RECORDER Button

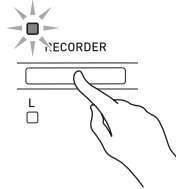
Each press of the **RECORDER** button cycles through the recording options in the sequence shown below.



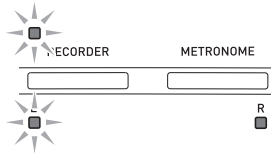
To record to a specific track of a song

After recording to either of the tracks of a song, you can record to the other track while listening to playback what you recorded in the first track.

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



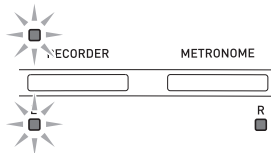
- At this time the **L** lamp will flash to indicate that the digital piano is standing by for recording to Track 1.



2. While holding down the **FUNCTION** button, press the **RECORDER (L)** button or **METRONOME (R)** button to select the track you want to record.

- Make sure that the indicator lamp for the record track is flashing.
Track 1: **L** lamp
Track 2: **R** lamp

Example: Track 1 selected



3. Select the tone and effects (Track 1 only) you want to use in your recording.

- Tone (page E-7)
- Effects (page E-10)

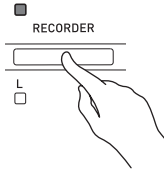
NOTE

- If you want the metronome to sound while you are recording, configure the beat and tempo settings, and then press the **METRONOME** button. See "Using the Metronome" on page E-10 for more information.

4. Start playing something on the keyboard.
 - Recording will start automatically.
5. To stop recording, press the **SONG** ►/■ button.
 - This will cause the **RECORDER** button lamp and the lamp of the track you recorded to change from flashing to lit.
 - To play back the track you just recorded, press the **SONG** ►/■ button.
6. After you are finished recording or playing back, press the **RECORDER** button so its lamp goes out.

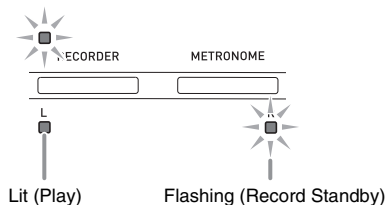
To record to one track of a song while listening to the playback of the other track

1. Press the **RECORDER** button so its lamp is lit.



2. While holding down the **FUNCTION** button, press the **RECORDER (L)** button or **METRONOME (R)** button to select the track you want to play back while recording.
3. Press the **RECORDER** button so its lamp is flashing.
 - This will cause the L lamp to flash.
4. While holding down the **FUNCTION** button, press the **RECORDER (L)** button or **METRONOME (R)** button to select the track you want to record.
 - Make sure that the indicator lamp for the record track is flashing.

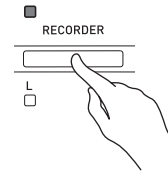
Example: To listen to playback of Track 1 as you record to Track 2



5. Select the tone and effects (Track 1 only) you want to use for your recording.
6. Press the **SONG ▶/■** button or play something on the keyboard.
 - This will start both playback of the recorded track and recording to the other track.
7. To stop recording, press the **SONG ▶/■** button.

Playing Back from Digital Piano Memory

1. Press the **RECORDER** button so its lamp is lit.



NOTE

- When a song has something recorded in both tracks, you can turn off one track and play back just the other track, if you want.

2. Press the **SONG ▶/■** button.

- This starts playback of the song and/or track you selected.

NOTE

- You can change the tempo setting as a track is playing.
- Press the **SONG ▶/■** button again to stop playback.

Deleting Recorded Data

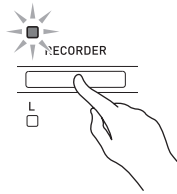
The following procedure deletes a specific track of a song.



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 **RECORDER** button twice so its lamp is flashing.

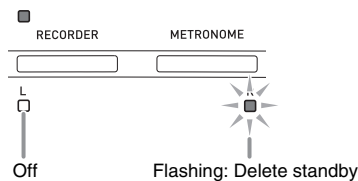


2. While holding down the **FUNCTION** button, press the **RECORDER (L)** button or **METRONOME (R)** button to select the track you want to delete.

3. Press the **RECORDER** button until its lamp is lit.

- This will cause the lamp of the track you selected in step 2 of this procedure to flash.

Example: If you selected Track 2 for deletion



4. Once again, hold down the **FUNCTION** button and press the button that corresponds to the track you want to delete (**RECORDER (L)** or **METRONOME (R)**).

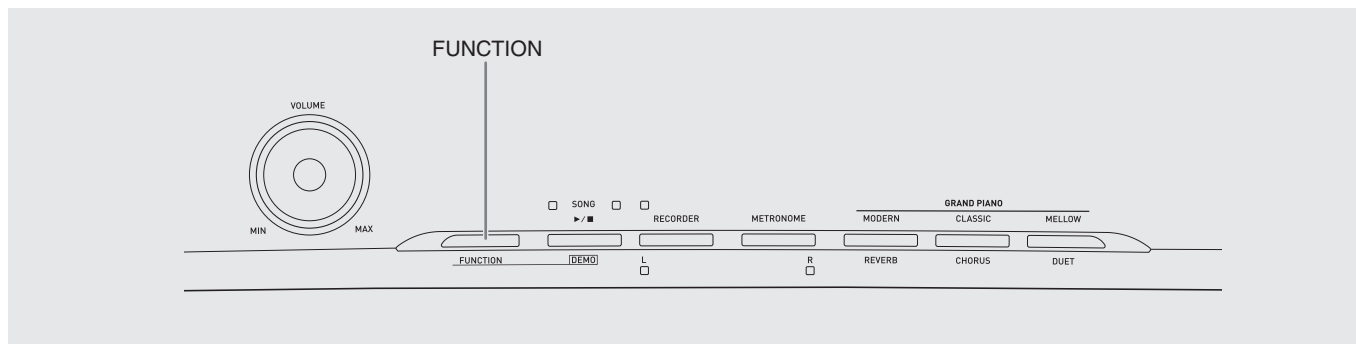
- This deletes the selected track and enters playback standby.
- To cancel the delete operation at any time, press the **RECORDER** button twice so its lamp is unlit.



NOTE

- Only the digital piano's **METRONOME (R)** button and **RECORDER (L)** button are operational from step 3 until you actually perform the delete operation in step 4. No other button operation can be performed.

Configuring Settings with the Keyboard

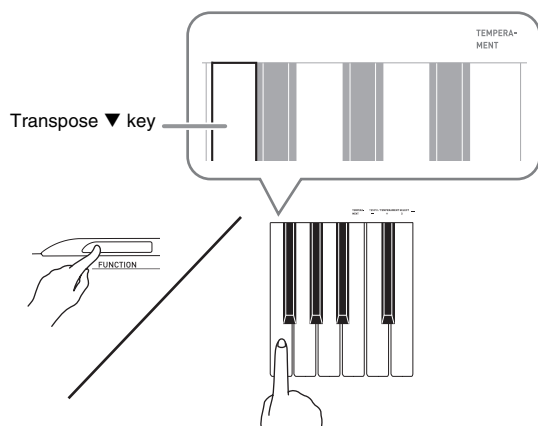


In addition to selecting tones and Music Library tunes, you also can use the **FUNCTION** button in combination with the keyboard keys to configure effect, keyboard touch, and other settings.

To configure settings with the keyboard

1. Use the “Parameter List” on pages E-21 - E-23 to find the setting you want to configure, and note its details.
2. Use “Keyboard Keys Used for Configuring Settings” on page E-20 to find the location on the keyboard for configuring the setting you want.
3. While holding down the **FUNCTION** button, press the keyboard key for the setting you want to configure.
 - The digital piano will sound an operation tone after it configures the setting.

Example: To lower the transpose setting by one semitone



4. Release the **FUNCTION** button to complete the setting procedure.

NOTE

- You can configure the digital piano so no operation tone sounds in step 3. For details, see “ Operation Tone” under “Parameter List” on pages E-21 - E-23.

Keyboard Setting Operation Types

There are three types of operations that you can perform while configuring settings with the keyboard keys: Type A, Type B, and Type C.

Type A: Direct input

Example: Pressing the STRINGS keyboard key to select the STRINGS 1 tone

Type B: Raising or lowering a setting using the + and - or ▼ and ▲ keyboard keys

- Holding down a key raises or lowers the setting at high speed.
- To return to the initial default setting, press both keys at the same time.

Type C: Value input using the numeric keys (0 to 9)

Example: To enter “120”, press keys 1, 2, 0.

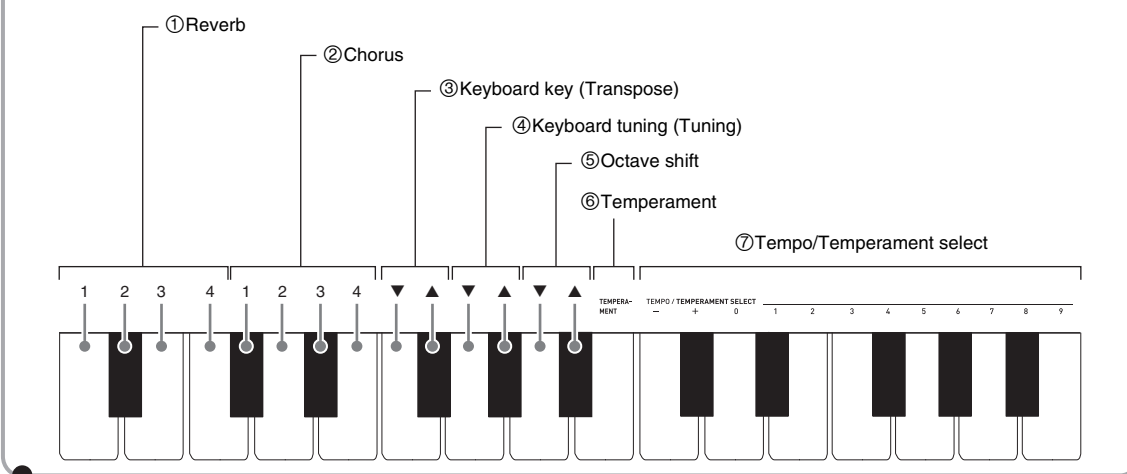
NOTE

- You can find out what operation type applies to each setting by checking the “Operation Type” in the “Parameter List” on pages E-21 - E-23.

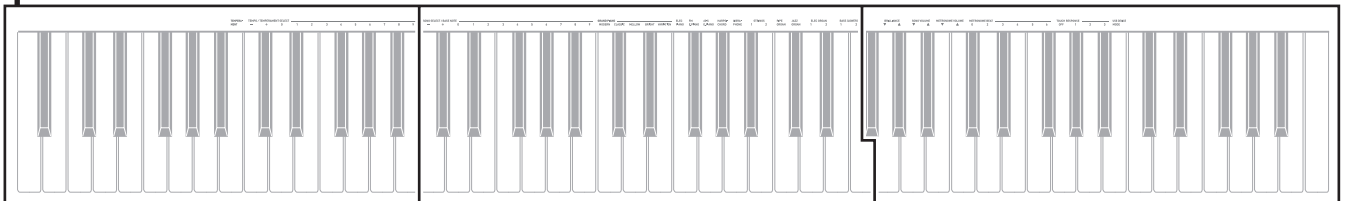
Keyboard Keys Used for Configuring Settings

- The numbers ① through ⑳ correspond to the same numbers in the “Parameter List” on pages E-21 - E-23.

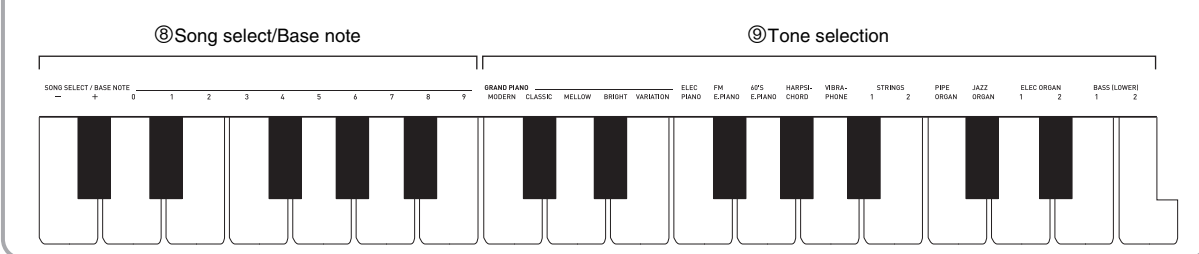
[Left keyboard]



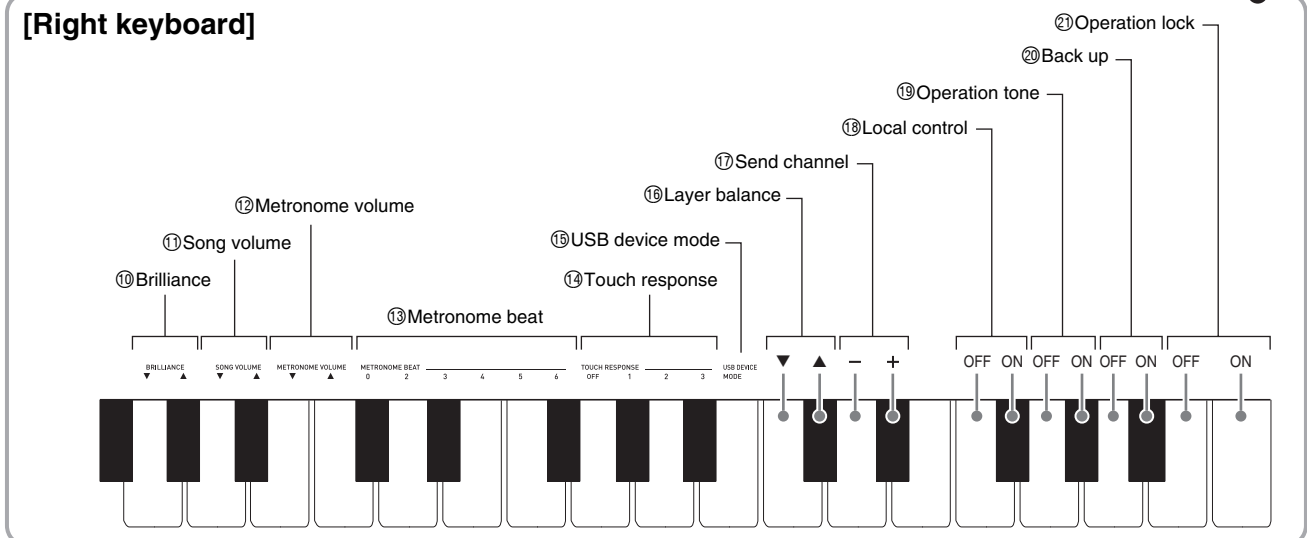
[Overall]



[Center keyboard]



[Right keyboard]



Parameter List

■ Tones

Parameter	Settings	Operation Type (page E-19)	Description	Remarks
① Reverb	1 to 4 Default: 2	A	Specifies the reverb of notes. (page E-10)	
② Chorus	1 to 4 Default: 2	A	Controls the breadth of notes. (page E-10)	
⑨ Tone selection	See page E-7. Default: GRAND PIANO (MODERN)	A	Assigns a tone to the keyboard. (page E-7)	
⑩ Brilliance (BRILLIANCE)	-3 to 0 to 3 Default: 0	B	Specifies the brilliance of notes. (page E-8)	
⑯ Layer balance	-24 to 0 to 24 Default: 0	B	Specifies the volume balance between the main tone and the layered tone. (page E-9)	

■ Song/Metronome

Parameter	Settings	Operation Type (page E-19)	Description	Remarks
⑦ Tempo (TEMPO)	20 to 255 Default: 120	B (+/-) C (0 to 9)	Specifies the tempo of Music Library songs, the metronome, recording and playback, etc. (page E-10)	<ul style="list-style-type: none"> Always enter three digits when using the number keys (0 to 9) to input a value. <i>Example:</i> To input 90, enter 0, 9, 0 (leading zero required). During recording, pressing + and - at the same time sets a value of 120.
⑧ Song select (SONG SELECT)	01 to 61 Default: 01	B (+/-) C (0 to 9)	Selects a Music Library tune. (page E-13)	<ul style="list-style-type: none"> Always enter two-digits when using the number keys (0 to 9) to input a value. <i>Example:</i> To input 8, enter 0, 8 (leading zero required). This setting cannot be changed while recording.
⑪ Song volume (SONG VOLUME)	00 to 42 Default: 42	B	Sets the volume level of Music Library playback.	<ul style="list-style-type: none"> This setting cannot be changed while recording.
⑫ Metronome volume (METRONOME VOLUME)	00 to 42 Default: 36	B	Specifies the metronome volume. (page E-11)	
⑬ Metronome beat (METRONOME BEAT)	0, 2, 3, 4, 5, 6 Default: 4	A	Specifies the metronome beat. (page E-10)	<ul style="list-style-type: none"> The metronome beat setting cannot be changed while playback of a Music Library tune is in progress.

Keyboard

Parameter	Settings	Operation Type (page E-19)	Description	Remarks
③ Keyboard key (Transpose)	-12 to 0 to 12 Default: 0	B	Raises or lowers the tuning of the digital piano in semitone steps.	<ul style="list-style-type: none"> The transpose setting cannot be configured while Music Library playback is in progress or while in the Duet Mode. Raising the key of the digital piano can cause notes the highest part of the range to become distorted.
④ Keyboard tuning (Tuning)	-99 to 0 to 99 Default: 0	B	Raises or lowers the overall pitch of the digital piano in 1-cent steps (100 cents = 1 semitone) from the standard pitch of A4 = 440 Hz.	<ul style="list-style-type: none"> The pitch setting cannot be changed while playback of a Music Library tune is in progress.
⑤ Octave shift	-2 to 0 to 2 Default: 0	B	Change the range of the keyboard in octave units.	<ul style="list-style-type: none"> You can configure octave shift settings for the main tone part and layered tone part. You cannot configure octave shift settings for split tone parts.
⑥ Temperament (TEMPERAMENT) ⑦ Temperament select (TEMPERAMENT SELECT) ⑧ Temperament Base note (BASE NOTE)	Temperament: 00 to 16 Base note: -, +, 0 to 9 (C to B) Defaults: Temperament: 00 (Equal Temperament) Base note: C	Hold down FUNCTION as you press each of the following keyboard keys. 1. TEMPERAMENT (⑥) 2. TEMPERAMENT SELECT (⑦) 3. BASE NOTE (⑧)	You can change the scale (tuning system) of the keyboard from standard equal temperament to another tuning that is more suitable for playing Indian music, Arabic music, classical pieces, etc.	<p><Temperaments> 00: Equal / 01: Pure Major / 02: Pure Minor / 03: Pythagorean / 04: Kirnberger 3 / 05: Werckmeister / 06: Mean-Tone / 07: Rast / 08: Bayati / 09: Hijaz / 10: Saba / 11: Dashti / 12: Chahargah / 13: Segah / 14: Gurjari Todi / 15: Chandrakauns / 16: Charukeshi</p> <p><Base notes> -: C / +: C# / 0: D / 1: E♭ / 2: E / 3: F / 4: F# / 5: G / 6: A♭ / 7: A / 8: B♭ / 9: B</p>
⑭ Touch response (TOUCH RESPONSE)	Off (OFF), 1 to 3 Default: 2	A	Specifies the relative touch of the keyboard keys. Setting a smaller value causes lighter touch to produce more powerful sound.	

■ MIDI and Other Settings

Parameter	Settings	Operation Type (page E-19)	Description	Remarks
⑮ USB device mode (USB DEVICE MODE)	MIDI, Storage Default: MIDI	—	The digital piano enters MIDI mode automatically when it is connected to a computer by a USB cable. Select storage when saving Recorder memory song data to a computer or when loading computer song data to digital piano memory. (page E-25)	<ul style="list-style-type: none"> While Storage is selected for this setting, the GRAND PIANO (MODERN, CLASSIC, MELLOW) button lamps flash, and all other lamps are unlit. All digital piano operations are disabled at this time. Each press of the USB device mode keyboard key toggles between the MIDI and storage modes.
⑰ Send channel	01 to 16 Default: 01	B	Specifies one of the MIDI channels (1 through 16) as the Send channel, which is used for sending MIDI messages to an external device.	
⑱ Local control	Off, On Default: On	A	Selecting "Off" for Local control cuts off the digital piano's sound source, so no sound is produced by the digital piano when keys are pressed.	<ul style="list-style-type: none"> The Local control setting cannot be changed while playback of a Music Library tune is in progress.
⑲ Operation tone	Off, On Default: On	A	Selecting "Off" disables sounding of the operation tone whenever a keyboard key is pressed while the FUNCTION is depressed.	<ul style="list-style-type: none"> This setting is retained even when the digital piano is turned off. The operation tone setting cannot be changed while Music Library playback is in progress, while the metronome is sounding, and during recording.
⑳ Back up	Off, On Default: Off	A	When "On" is selected for this setting, the digital piano will remember <u>its current settings</u> ^{*1} , and restore them when it is turned on again. When "Off" is selected, settings ^{*2} are reset to their initial defaults whenever the digital piano is turned on.	<ul style="list-style-type: none"> The back up setting cannot be changed while Music Library playback is in progress, while the metronome is sounding, in the Duet Mode, and during recording. <p>*1 The following settings are not remembered.</p> <ul style="list-style-type: none"> Duet Mode Tune LR (part) Local control <p>*2 Except for the operation tone on/off setting.</p>
㉑ Operation lock	Off, On Default: Off	A	Selecting "On" for this setting locks the digital piano's buttons (except for the power button and the buttons required for unlock), so no operation can be performed. Turn on operation lock when you want to protect against unintentional button operations.	<ul style="list-style-type: none"> The operation lock setting cannot be changed while Music Library playback is in progress, while the metronome is sounding, and during recording.

Connecting to a Computer

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

Minimum Computer System Requirements

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

● Operating System

Windows® XP (SP2 or later)*1

Windows Vista® *2

Windows® 7 *3

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

*1: Windows XP Home Edition

Windows XP Professional (32-bit)

*2: Windows Vista (32-bit)

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

● USB port

IMPORTANT!

- 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

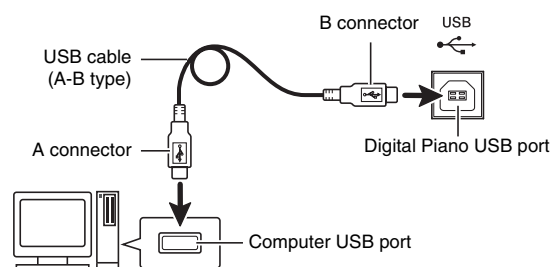
IMPORTANT!

- Make sure you follow the steps of the procedure below exactly. Connecting incorrectly can make data send and receive impossible.

1. Turn off the digital piano and then start up your computer.

- Do not start up the music software on your computer yet!

2. After starting up your computer, use a commercially available USB cable to connect it to the digital piano.



3. Turn on the digital piano.

- If this is the first time you are connecting the digital piano to your computer, the driver software required to send and receive data will be installed on your computer automatically.

4. Start up your computer's music software.

5. Configure the music software settings to select one of the following as the MIDI device.

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

USB Audio Device: (For Windows XP)

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

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.
- 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.

NOTE

- For detailed information about MIDI Implementation, visit the CASIO website at: <http://world.casio.com/>.

See “Send channel” and “Local control” on page E-23.

Transferring Song Data with a Computer

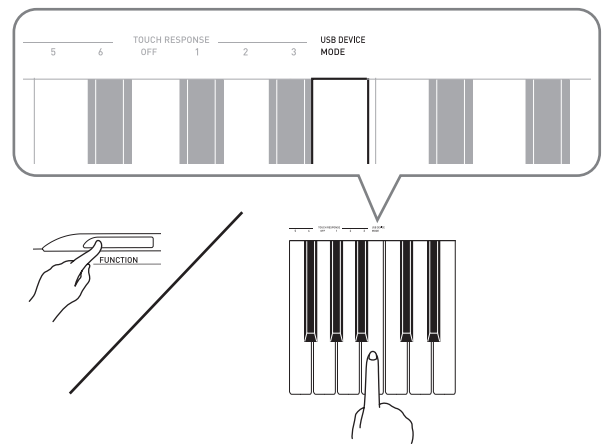
Use the procedures in this section to transfer Recorder memory data to a computer for storage, and to load songs to user song memory (Music Library 61).

IMPORTANT!

- Turning off the Digital Piano while it is exchanging data with a computer can cause data in Digital Piano memory to become corrupted. If this happens, a memory format operation will start the next time you turn on the Digital Piano. Note that it takes about 20 seconds for the format operation to finish, and you will not be able to perform any operation during that time.

- Perform steps 1 through 3 of the procedure under “Connecting the Digital Piano to Your Computer” on page E-24.

- Change the digital piano’s USB device mode to storage.

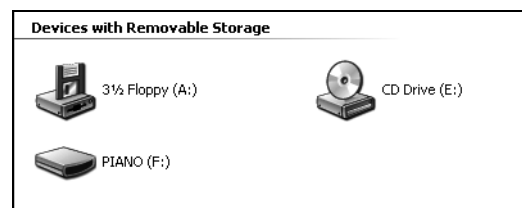


- While holding down the **FUNCTION** button, press the keyboard key that corresponds to the USB device mode.
- After this setting is changed, the **GRAND PIANO (MODERN, CLASSIC, MELLOW)** button lamps flash, and all other lamps are unlit.
- See “USB device mode (USB DEVICE MODE)” on page E-23 for more information.

- On your computer, perform the required operation to display your computer’s storage devices.

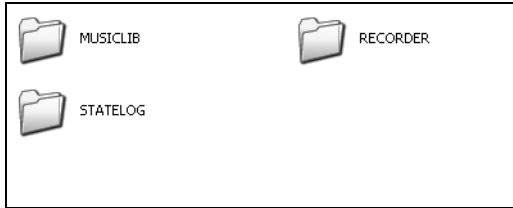
If your computer is running this operating system:	Do this:
Windows XP	Double-click “My Computer”.
Windows Vista, Windows 7	Double-click “Computer”.
Mac OS	Skip step 3 and double-click “PIANO” on your Mac desktop.

- The memory of this digital piano will appear as “PIANO” under “Devices with Removable Storage”.



4. Double-click “PIANO”.

- “PIANO” contains folders named MUSICLIB and RECORDER. Use MUSICLIB to load a song into the piano’s user song memory (Music Library 61), and RECORDER to transfer Recorder memory data to and from your computer.



Data Type	Folder Name	File Name and Extension*
User songs	MUSICLIB	BIDSNG01.MID: SMF format data (format 0/1) BIDSNG01.CM2: CASIO original format data
Recorder memory data	RECORDER	BIDREC01.CSR: CASIO original format data

* Before starting a store or load operation, first check the file name and extension to ensure it matches the ones shown in this column.

The initial default configuration for Windows XP, Windows Vista, and Windows 7 is to hide file name extensions. Perform one of the following operations on your computer to show file name extensions.

■ To show file name extensions under Windows XP

1. Open the folder you want.
2. On the [Tools] menu, click [Folder Options].
3. Click the [View] tab. In the [Advanced settings] list, clear the check box next to [Hide extensions for known file types].
4. Click [OK].

■ To show file name extensions under Windows Vista or Windows 7

1. Open Folder Options by clicking the [Start] button, clicking [Control Panel], clicking [Appearance and Personalization], and then clicking [Folder Options].
2. Click the [View] tab. Under [Advanced settings] clear the [Hide extensions for known file types] check box.
3. Click [OK].

■ To load a song into user song memory (Music Library 61)

1. Copy the file (.MID or .CM2) you want to load into user song memory to the MUSICLIB folder.
2. Change the name of the file to BIDSNG01, with a file name extension of .MID or .CM2.
 - If there are two files with the names BIDSNG01.MID and BIDSNG01.CM2 in the MUSICLIB folder, only the BIDSNG01.MID data will be loaded into user song memory. If you want the BIDSNG01.CM2 file to be loaded in this case, change the name of the BIDSNG01.MID to something else.

NOTE

- The message “Cannot rename MIDIDATA” will appear on your computer screen if you try to change the name of the copied file to BIDSNG01.MID while there is already a file in the MUSICLIB folder named BIDSNG01.MID. Change the name of the current BIDSNG01.MID to something else and then rename the copied file to BIDSNG01.MID.

■ To transfer Recorder memory data between the digital piano and your computer

To transfer the digital piano’s current Recorder memory data to your computer, copy the contents of the RECORDER folder to your computer.

To return Recorder data you previously saved to your computer back to Recorder memory, copy it back to the RECORDER folder (and replace the current RECORDER folder contents).

5. After the file copy operation is complete, return the USB device mode to MIDI.
- If you are using a Macintosh, perform the eject operation (drag them to the trash can).
 - While holding down the **FUNCTION** button, press the applicable keyboard key. See “USB device mode (USB DEVICE MODE)” on page E-23 for more information.
 - Returning the USB device mode to MIDI will load the contents of MUSICLIB into user song memory and the contents of RECORDER into Recorder memory.

**IMPORTANT!**

- A data conversion error is indicated when both of the **SONG ▶/■** button lamps, and the **GRAND PIANO (MODERN)** button, **GRAND PIANO (CLASSIC)** button, and **GRAND PIANO (MELLOW)** button lamps are all lit, and all other lamps are unlit.

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Reference

Troubleshooting

Problem	Cause	Action	See Page
No sound is produced when I press a keyboard key.	<ol style="list-style-type: none"> 1. The VOLUME controller is set to "MIN". 2. Headphones or an adaptor plug is plugged into one of the PHONES jacks. 3. MIDI Local control is turned off. 	<ol style="list-style-type: none"> 1. Rotate the VOLUME controller more towards "MAX". 2. Disconnect whatever is connected to the PHONES jacks. 3. Turn on the Local control setting. 	<p>☞ E-7</p> <p>☞ E-5</p> <p>☞ E-23</p>
The pitch of the digital piano is off.	<ol style="list-style-type: none"> 1. The digital piano's key setting is something other than "0". 2. Digital piano tuning is incorrect. 3. Octave shift is enabled. 4. A non-standard temperament setting is being used. 	<ol style="list-style-type: none"> 1. Change the key setting to "0", or turn digital piano power off and then back on again. 2. Adjust digital piano tuning, or turn the digital piano off and then back on again. 3. Change the octave shift setting to 0. 4. Change the temperament setting to "00:Equal", which is the standard modern tuning. 	<p>☞ E-22</p> <p>☞ E-22</p> <p>☞ E-22</p> <p>☞ E-22</p>
Tones and/or effects sound strange. Turning power off and then back on again does not eliminate the problem. <i>Example: Note intensity does not change even though I alter key pressure.</i>	The "Back up" feature is turned on.	Turn off "Back up". Next, turn power off and then back on again.	☞ E-23
I cannot transfer data after connecting the digital piano to a computer.	–	<ol style="list-style-type: none"> 1. 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. 2. 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. 	☞ E-24
It takes a long time before I can use the Digital Piano after I turn it on.	Digital Piano memory data was corrupted because a data transfer operation with a computer was in progress the last time you turned off the piano. When this happens, the Digital Piano performs a memory format operation the next time you turn it on. You cannot perform any other operation while a format operation is in progress.	It takes about 20 seconds after you turn on power to perform the memory format operation. Wait until the format operation is complete. Note that you should take care to avoid turning off the Digital Piano while a data transfer operation with a computer is in progress.	☞ E-25
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 very slight differences 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.	This happens when the sounds of multiple parts are sounding at the same time while using layer, using the Duet Mode, playing back a built-in tune, recording, etc. Pressing a button when one of these conditions exists will cause the effect setting that is built into the tone to change automatically, which causes notes to cut out momentarily or causes a slight change in how effects are being applied.		

Product Specifications

Model	PX-135BK/PX-135WE
Keyboard	88-key piano keyboard, with Touch Response
Maximum Polyphony	128 notes
Tones	18 <ul style="list-style-type: none"> • Layer (excluding bass tones) • Split (Low-range bass tones only)
Effects	Brilliance (–3 to 0 to 3), Reverb (4 types), Chorus (4 types), DSP, Acoustic Resonance
Metronome	<ul style="list-style-type: none"> • Beats: 0, 2, 3, 4, 5, 6 • Tempo Range: 20 to 255
Duet	Adjustable tone range (–1 to 2 octaves)
Music Library	<ul style="list-style-type: none"> • Number of Songs: 60, User Songs: 1 (memory capacity; up to 65KB)* * Based on 1 KB = 1024 bytes, 1 MB = 1024² bytes • Song volume: Adjustable • Part On/Off: L, R
Recorder	<ul style="list-style-type: none"> • Functions: Real-time recording, playback • Number of Song: 1 • Number of Tracks: 2 • Capacity: Approximately 5,000 notes total • Recorded Data Protection: Built-in flash memory
Pedals	Damper (Soft and sostenuto pedal operations enabled by the optional SP-32 Pedal Unit.)
Other Functions	<ul style="list-style-type: none"> • Touch Select: 3 types, Off • Transpose: 2 octaves (–12 to 0 to 12) • Tuning: A4 = 440.0 Hz ±99 cents (variable) • Temperament • Octave shift • Operation lock
MIDI	16-channel multi-timbre receive
Inputs/Outputs	<ul style="list-style-type: none"> • PHONES jacks: Stereo mini jacks × 2 Output impedance: 3Ω Output Voltage: 1.5V (RMS) MAX • Power: 12V DC • USB port: TYPE B • Damper Pedal Jack: Standard jack • Pedal connector
Speakers	[13cm × 6cm (rectangular)] × 2 (Output 8W + 8W)
Power Requirements	AC Adaptor: AD-A12150LW
Power Consumption	12V --- 18W
Dimensions	132.2 (W) × 28.6 (D) × 13.5 (H) cm (52 1/16 × 11 1/4 × 5 5/16 inch)
Weight	Approximately 11.2kg (24.7 lbs)

- 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 the window and using headphones.

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■ AC Adaptor Handling Precautions

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

AC Adaptor Handling Precautions

Model: AD-A12150LW

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

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



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



Appendix/Apéndice

Tone List/Lista de tonos

Tone Name/ Nombre de tonos	Program Change/ Cambio de programa	Bank Select MSB/ MSB de selección de banco
GRAND PIANO MODERN	0	2
GRAND PIANO CLASSIC	0	0
GRAND PIANO MELLOW	0	3
GRAND PIANO BRIGHT	0	1
GRAND PIANO VARIATION	0	4
ELEC PIANO	4	0
FM E.PIANO	5	0
60'S E.PIANO	4	1
HARPSICHORD	6	0
VIBRAPHONE	11	0
STRINGS 1	49	0
STRINGS 2	48	0
PIPE ORGAN	19	0
JAZZ ORGAN	17	0
ELEC ORGAN 1	16	0
ELEC ORGAN 2	16	1
BASS (LOWER) 1	32	0
BASS (LOWER) 2	32	1

Song List/Lista de canciones

No./Nº	Song Name/Nombre de canciones
01	Nocturne Op.9-2
02	Fantaisie-Impromptu Op.66
03	Étude Op.10-3 "Chanson de l'adieu"
04	Étude Op.10-5 "Black Keys"
05	Étude Op.10-12 "Revolutionary"
06	Étude Op.25-9 "Butterflies"
07	Prélude Op.28-7
08	Valse Op.64-1 "Petit Chien"
09	Valse Op.64-2
10	Moments Musicaux 3
11	Impromptu Op.90-2
12	Marche Militaire 1 (Duet)
13	Frühlingslied [Lieder Ohne Worte Heft 5]
14	Fröhlicher Landmann [Album für die Jugend]
15	Von fremden Ländern und Menschen [Kinderszenen]
16	Träumerei [Kinderszenen]
17	Tambourin
18	Menuet BWV Anh.114 [Clavierbüchlein der Anna Magdalena Bach]
19	Inventio 1 BWV 772
20	Inventio 8 BWV 779
21	Inventio 13 BWV 784
22	Praeludium 1 BWV 846 [Das Wohltemperierte Klavier 1]
23	Le Coucou
24	Gavotte
25	Sonatina Op.36-1 1st Mov.
26	Sonatine Op.20-1 1st Mov.
27	Sonate K.545 1st Mov.
28	Sonate K.331 3rd Mov. "Turkish March"
29	Rondo K.485
30	Für Elise
31	Marcia alla Turca
32	Sonate Op.13 "Pathétique" 1st Mov.
33	Sonate Op.13 "Pathétique" 2nd Mov.
34	Sonate Op.13 "Pathétique" 3rd Mov.
35	Sonate Op.27-2 "Moonlight" 1st Mov.
36	Rhapsodie 2
37	Waltz Op.39-15 (Duet)
38	Liebesträume 3
39	Blumenlied
40	La Prière d'une Vierge
41	Csikos Post
42	Humoresque Op.101-7
43	Melodie [Lyrische Stücke Heft 2]
44	Sicilienne Op.78
45	Berceuse [Dolly] (Duet)
46	Arabesque 1
47	La Fille aux Cheveux de Lin [Préludes]
48	Passepied [Suite bergamasque]
49	Gymnopédie 1
50	Je Te Veux
51	Salut d'Amour
52	The Entertainer
53	Maple Leaf Rag
54	L'arabesque [25 Étüden Op.100]
55	La Styrienne [25 Étüden Op.100]
56	Ave Maria [25 Étüden Op.100]
57	Le retour [25 Étüden Op.100]
58	La chevaleresque [25 Étüden Op.100]
59	No.13 [Études de Mécanisme Op.849]
60	No.26 [Études de Mécanisme Op.849]

MIDI Implementation Chart

Function	Transmitted	Recognized	Remarks
Basic Channel Default Changed	1 - 16 1 - 16	1 - 16 1 - 16	
Mode Default Messages Altered	Mode 3 X * * * * * * * * * *	Mode 3 X * * * * * * * * * *	
Note Number True voice	0 - 127 * * * * * * * * * *	0 - 127 0 - 127*1	*1 : Depends on tone *1 : Depende del tono
Velocity Note ON Note OFF	0 9nH v = 1 - 127 X 8nH v = 64	0 9nH v = 1 - 127 X 9nH v = 0, 8nH v = **	** : no relation ** : sin relación
After Touch Key's Ch's	X X	X O	
Pitch Bender	X	O	
Control Change 0,32 1 5 6, 38 7 10 11 16 17 18 19 64 65	O X X X X O X X X X X X X X X X X	O O O O O O O O O O O O O O O O O	Bank select Modulation Portamento Time Data entry LSB, MSB*2 Volume Pan Expression DSP Parameter0*2 DSP Parameter1*2 DSP Parameter2*2 DSP Parameter3*2 Dampner Portamento Switch

66 67 76 77 78 80 81 82 83 84 91 93 100, 101		<input type="checkbox"/> Sostenuto <input type="checkbox"/> Soft pedal <input type="checkbox"/> Vibrato rate <input type="checkbox"/> Vibrato depth <input type="checkbox"/> Vibrato delay <input type="checkbox"/> DSP Parameter4*2 <input type="checkbox"/> DSP Parameter5*2 <input type="checkbox"/> DSP Parameter6*2 <input type="checkbox"/> DSP Parameter7*2 <input type="checkbox"/> Portamento Control <input type="checkbox"/> Reverb send <input type="checkbox"/> Chorus send <input type="checkbox"/> RPN LSB, MSB*2	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Program Change	: True #	<input type="checkbox"/> * * * * * <input type="checkbox"/> 0 - 127	<input type="checkbox"/> 0 - 127		
System Exclusive		<input type="checkbox"/> * * * * * <input type="checkbox"/> *2	<input type="checkbox"/> *2		
System Common	: Song Pos : Song Sel : Tune	<input checked="" type="checkbox"/> * * * * * <input checked="" type="checkbox"/> * * * * * <input checked="" type="checkbox"/> * * * * *	<input checked="" type="checkbox"/> * * * * * <input checked="" type="checkbox"/> * * * * * <input checked="" type="checkbox"/> * * * * *		
System Real Time	: Clock : Commands	<input type="checkbox"/> * * * * * <input type="checkbox"/> * * * * *	<input checked="" type="checkbox"/> * * * * * <input checked="" type="checkbox"/> * * * * *		
Aux Messages	: All sound off : Reset all controller : Local ON/OFF : All notes OFF : Active Sense : Reset	<input checked="" type="checkbox"/> * * * * * <input type="checkbox"/> * * * * * <input checked="" type="checkbox"/> * * * * * <input type="checkbox"/> * * * * * <input checked="" type="checkbox"/> * * * * * <input checked="" type="checkbox"/> * * * * *	<input type="checkbox"/> * * * * * <input type="checkbox"/> * * * * * <input checked="" type="checkbox"/> * * * * * <input type="checkbox"/> * * * * * <input type="checkbox"/> * * * * * <input checked="" type="checkbox"/> * * * * *		
Remarks		*2: For details, see MIDI Implementation at http://world.casio.com/ . *2: Si desea más información, vea Implementación MIDI en http://world.casio.com/ .			

Mode 1 : OMNI ON, POLY
Mode 2 : OMNI ON, MONO
Mode 3 : OMNI OFF, POLY
Mode 4 : OMNI OFF, MONO
O : Yes
X : No



This recycle mark indicates that the packaging conforms to the environmental protection legislation in Germany.

Esta marca de reciclaje indica que el empaquetado se ajusta a la legislación de protección ambiental en Alemania.

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