PX870/770-E-1B

EN

PriviA

PX-870
PX-770

CASIO

USER'S GUIDE
Please keep all information for future reference.

About These Instructions

These instructions consist of four pages on two sheets. Each page is identified by a page number in the upper right corner.

> Before performing any operation, be sure to go to page 3/4 first and read the information under "Piano Buttons", "Using the **FUNCTION** Button", and "Keyboard Keys Used for Configuring Settings".

● Refer to "Assembling the Stand" on page 4/4 of these instructions for information about how to assemble the stand and attach the music stand.

These instructions provide general information about Digital Piano operations. For more detailed information, refer to the "User's Guide (Full)", which can be downloaded by visiting the website below or by using the nearby QR code.
http://world.casio.com/manual/emi/

The "User's Guide (Full)" includes information on the topics listed below.
• Auto Resume and Operation Lock
• Connecting to an audio system and amplifier
• Connecting to a computer
• Details about settings using the **FUNCTION** button
• Operations using a USB flash drive (PX-870)
• MIDI Implementation Chart, etc.

● Be sure to read the "Safety Precautions" in these instructions and use the Digital Piano correctly.

⚠ **Caution!**
Make sure that the keyboard cover is fully open whenever you are playing. A partially open cover can suddenly close unexpectedly and pinch your fingers.

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.

Specified AC Adaptor:
PX-870: AD-E24250LW
PX-770: AD-A12150LW

• Use the supplied power cord to connect the AC adaptor.

Bottom

DC 24V   DC 12V

Power Terminal (PX-870: **DC 24V**)   Power Terminal (PX-770: **DC 12V**)
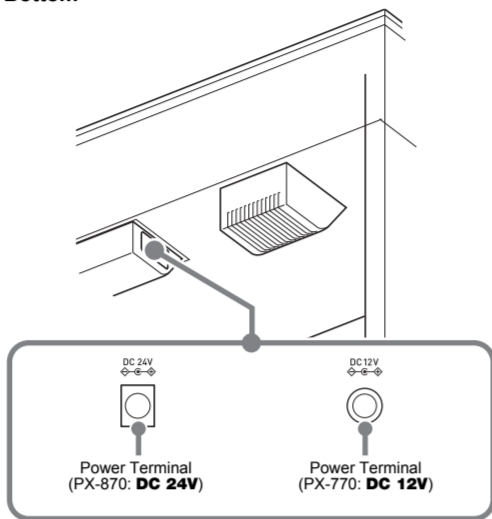
> **IMPORTANT!**
> • Never connect the AC adaptor that comes with this Digital Piano to any other device besides this Digital Piano. Doing so creates the risk of malfunction.
> • Make sure the Digital Piano is turned off before plugging in or unplugging the AC adaptor.
> • The AC adaptor will become warm to the touch after very long use. This is normal and does not indicate malfunction.
> • Never try to use the supplied power cord with any other device.
> • Place the AC adaptor on the floor with its label surface pointed downwards. The AC adaptor becomes more prone to electromagnetic wave generation if the label surface is in a different position.
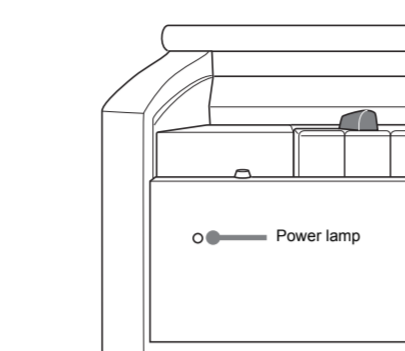

Turning Power On or Off

■ To turn on power
Press the ⏻ (Power) button. Power up takes about five seconds.

■ To turn off power
Hold down the ⏻ (Power) button until the power lamp goes out.

Front

Power lamp

> **IMPORTANT!**
> • Pressing the ⏻ (Power) button to turn off power actually puts the Digital Piano into a standby state (minute current continues to flow). If you do not plan to use the Digital Piano for a long time or if there is a lightning storm in your area, unplug the AC adaptor from the power outlet.

■ Auto Power Off
Power turns off automatically after four hours of non-use. To disable Auto Power Off, turn on power by holding down the **FUNCTION** button and pressing ⏻ (Power).

Adjusting Volume
Use the **VOLUME** knob to adjust the volume of speaker and headphone output.

Changing the Tuning
The factory tuning (A4=440.0Hz) can be change in 0.1 Hz steps.

1. **Hold down the FUNCTION button and use the A-tuning keys (+, –).**
   • Tuning is raised or lowered in 0.1 Hz steps.
   • To toggle between the two settings below, hold down the **FUNCTION** button and press the A-tuning keyboard keys (+ and –) at the same time.
     440.0 Hz (1 beep)
     442.0 Hz (2 beeps)

Connecting Headphones
Connect headphones to the **PHONES/OUTPUT** jack. Connecting headphones mutes speaker output, so you can practice even late at night. To protect your hearing, do not set the volume too high when using headphones.

Front
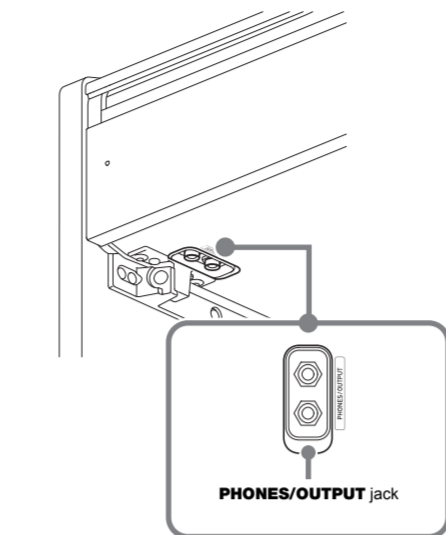
PHONES/OUTPUT jack

> **NOTE**
> • If the plug of the headphones does not match the **PHONES/OUTPUT** jack, use a commercially available adaptor plug.

Head Phone Mode (PX-870)
The Head Phone Mode reproduces natural sounding acoustic piano tones when using headphones.

1. **Hold down the FUNCTION button and press the Head Phone Mode key.**
   Each press toggles between on and off.

Selecting a Tone with a Button

1. **Press the GRAND PIANO button or E.PIANO 1 button.**
   • Pressing the **GRAND PIANO** button selects the GRAND PIANO CONCERT tone.

Selecting a Tone with a Keyboard Key
Tone names are marked above the keys.

1. **Hold down the FUNCTION button and press the desired tone key. (See the "Tone" area under "Keyboard Keys Used for Configuring Settings".)**
   • Some keys may have more than one tone assigned. In this case, each press of the key cycles to the next assigned tone. Which tone is selected by the key press is indicated by beeps.
     Example: Cycling through MODERN, ROCK, and JAZZ settings
     MODERN: (1 beep)
     ROCK: (2 beeps)
     JAZZ: (3 beeps)

■ Bass Tone (BASS)
Pressing the BASS (LOWER) key to select a bass tone selects a bass tone for the low end (left side) of the keyboard only. The high end (right side) of the keyboard retains the tone assigned to it before the bass tone was selected.

Split point

Bass range   High range

BASS   JAZZ ORGAN (previously selected tone)
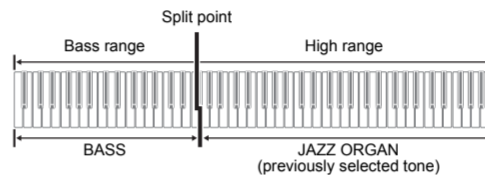
Layering Two Tones

1. **Hold down the FUNCTION button and press the Select Layer Tone key.**
   • Each press of the keyboard key toggles between on and off.

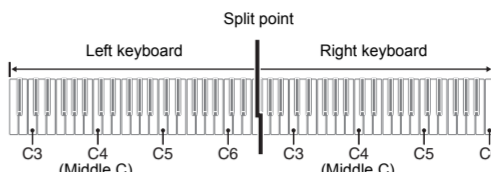2. **Hold down the FUNCTION button and press key of the tone to be layered.**

GRAND PIANO BRIGHT
STRINGS 2

3. **To return to the original tone, hold down the FUNCTION button and press the Select Layer Tone key (which exits the Layer Mode).**
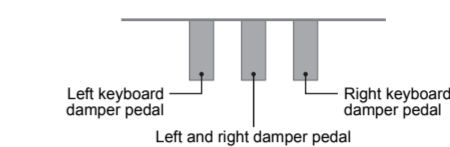

Splitting the Keyboard for Duet Play
You can split the keyboard in the center so the left and right sides have the same range. The left outer pedal is the left side damper pedal, while the right outer pedal is the right side damper pedal.

Keyboard

Left keyboard   Split point   Right keyboard

C3   C4 (Middle C)   C6   C3   C4 (Middle C)   C6

Pedals

Left keyboard damper pedal   Right keyboard damper pedal
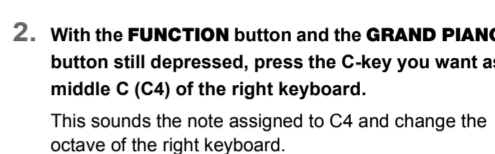Left and right damper pedal

> **NOTE**
> • Only the damper pedal for the right keyboard supports half-pedal operations.

1. **Select a tone.**

2. **To cycle between the Duet Mode settings below, hold down the FUNCTION button and press the Duet Mode key.**
   Off
   On
   Pan: Outputs left side keyboard tone from the left speaker and right side keyboard tone from the right speaker.

Changing the Octaves of the Keyboards
You can change the ranges of the left and right keyboards in octave units from their initial default settings.

1. **Hold down the FUNCTION button and the GRAND PIANO button, press the C-key you want as middle C (C4) of the left keyboard. Keep the FUNCTION button and the GRAND PIANO button depressed as you advance to step 2.**
   Example: Pressing the leftmost C key configures the keyboards below.

Left keyboard   Right keyboard

C4   C5   C6   C7   C3   C4   C5   C6

(Pressed key)

1 octave higher than initial setting   Unchanged

2. **With the FUNCTION button and the GRAND PIANO button still depressed, press the C-key you want as middle C (C4) of the right keyboard.**
   This sounds the note assigned to C4 and change the octave of the right keyboard.

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

Adjusting Acoustic Piano Sound Characteristics (PX-870)

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

■ Hammer Response
Controls the time lag between when a key is pressed and when the note actually sounds.

Settings
1: Quick
2: Grand piano style
3: Slightly slow
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: Subdued
2: Slightly subdued
3: Resonant
4: Very resonant

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

Settings
1: Lid closed
2: Lid partially open
3: Lid fully open
4: Lid removed

1. **Hold down the FUNCTION button and press the desired element key.**

Playing Back Built-in Songs
This Digital Piano comes with a Music Library of 60 piano songs (numbered 1 to 60), and Concert Play selection of piano and orchestra performance songs (numbered 1 to 10) built in.

Demo Songs

1. **Hold down the FUNCTION button and press the METRONOME button.**
   This starts sequentially looped playback of all Concert Play (Listen) songs and Music Library songs.
   • To advance to the next demo song, hold down the **FUNCTION** button and press the **MIDI REC** button.
   • To return to the previous demo song, hold down the **FUNCTION** button and press the **AUDIO REC** button (**REVERB** button for PX-770).
   • To stop demo playback, press the ▶/■ button.

> **NOTE**
> • Pressing the **METRONOME** button while holding down the **FUNCTION** button during Concert Play jumps to the first Music Library song. Performing the same operation during Music Library play jumps to the first Concert Play song.
> • The only operations possible during demo play back are changing the currently playing tune and stopping playback.

Music Library

1. **To select a song, hold down the FUNCTION button and use the Select Music Library Song keys (–, +).**
   You can also input a value from 0 to 9 to specify a Music Library song number.

2. **To start playback press the ▶/■ button.**
   • To stop playback, press the ▶/■ button.

Practicing with Built-in Tunes

Music Library
Use the steps below to turn off the left-hand part or right-hand part of a song and play along.

1. **To select a song to practice, hold down the FUNCTION button and use the Select Music Library Song keys (–, +, keys 0 to 9).**

2. **To select on or off for each part, hold down the FUNCTION button and press the ▶/■ button.**
   Play the part you turned off.

Both parts on   Right-hand part off   Left-hand part off

Left-hand part (lit)   Right-hand part (unlit)   Left-hand part (unlit)
Right-hand part (lit)

   • Each press of the ▶/■ button cycles the on/off settings as shown above.

3. **To start playback, press the ▶/■ button.**
   • To stop playback, press the ▶/■ button.

Concert Play

1. **To select a song, hold down the FUNCTION button and use the CONCERT PLAY area SELECT keys (–, +).**

2. **To start song playback, hold down the FUNCTION button and press the CONCERT PLAY area ▶/■ key.**
   • To stop song playback, hold down the **FUNCTION** button and press the CONCERT PLAY area ▶/■ key.
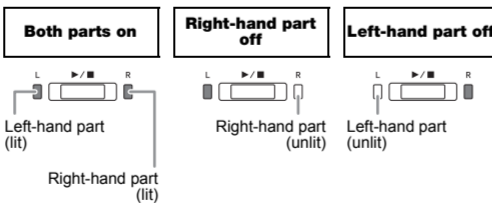
> **NOTE**
> • Concert Play uses recordings of a live orchestra, so the tones used for recording are different from those that can be selected with the Digital Piano. Also note that breath and performance noises may be audible in Concert Play songs.

Concert Play
You can use Concert Play for 3-step practice.

■ Step 1: LISTEN
Listen to playback of the piano and orchestra to familiarize yourself with the music.

1. **To select a song, hold down the FUNCTION button and use the CONCERT PLAY area SELECT keys (–, +).**

2. **Hold down the FUNCTION button and press the CONCERT PLAY area LISTEN key.**

3. **To start song playback, hold down the FUNCTION button and press the CONCERT PLAY area ▶/■ key.**
   • To stop song playback, hold down the **FUNCTION** button and press the CONCERT PLAY area ▶/■ key.

■ Step 2: LESSON
You can turn off the left-hand part or right-hand part of a built-in song and play along on the Digital Piano. Practice the piano part of the ensemble.

1. **Hold down the FUNCTION button and press the CONCERT PLAY area LESSON key.**

2. **To select on or off for each part, hold down the FUNCTION button and press the ▶/■ button.**
   See the illustration under step 2 of the "Music Library" part selection procedure.

3. **To start song playback, hold down the FUNCTION button and press the CONCERT PLAY area ▶/■ key.**
   • To stop song playback, hold down the **FUNCTION** button and press the CONCERT PLAY area ▶/■ key.

■ Step 3: PLAY
Play along with the orchestra.

1. **Hold down the FUNCTION button and press the CONCERT PLAY area PLAY key.**

2. **To start song playback, hold down the FUNCTION button and press the CONCERT PLAY area ▶/■ key.**
   • To stop song playback, hold down the **FUNCTION** button and press the CONCERT PLAY area ▶/■ key.

Using a Pedal

Soft pedal   Damper pedal
Sostenuto pedal
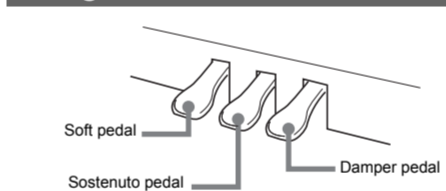
■ Damper Pedal
Pressing the damper pedal while playing causes the notes you play to reverberate. Half-pedal operation (pressing the pedal part way) is also supported.

■ Sostenuto pedal
Only the notes of the keys that are depressed when this pedal is pressed are sustained, even if the keyboard keys are released, until the pedal is released.

■ Soft pedal
This pedal makes notes softer and gentler. The effect is applied only to notes played while the pedal is depressed.

> **NOTE**
> • If pressing the pedal does not produce the desired effect, it could mean that the pedal cord is not connected properly. Fully push the plug in as far as it goes.

Using the Metronome

■ To sound the metronome

1. **Press the METRONOME button.**
   The first beat of a measure is a chime, and remaining beats are clicks. The lamp flashes with each beat.
   Press the **METRONOME** button again to turn off the metronome.

Metronome Settings

■ To set the beat

1. **Hold down the FUNCTION button and press the METRONOME area BEAT key.**
   • Keep the **FUNCTION** button depressed as you advance to the next step.

2. **Still holding down the FUNCTION button, use the number keys (0 to 9) to specify the beat.**
   Setting range: 0 to 9
   • Specifying 0 sounds a straight click, without any chime.

■ To set the tempo

1. **Hold down the FUNCTION button and press the METRONOME area TEMPO key.**
   • Keep the **FUNCTION** button depressed as you advance to the next step.

2. **Still holding down the FUNCTION button, use the number keys (0 to 9) to specify the tempo.**
   Setting range: 20 to 255
   • Each press of the + or – key raises or lowers the tempo by 1.

■ To adjust the metronome volume
Hold down the **FUNCTION** button and use the Metronome Volume keys (–, +) to set a volume level from 0 to 42.

Setting range: 0 to 42
• To return to the initial default volume, press the Metronome Volume + key and – key at the same time

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Changing Keyboard Response to Touch Pressure (Touch Response)
Touch Response alters tone volume in accordance with keyboard pressure (speed).

1. **Hold down the FUNCTION button and press the Keyboard Touch key.**
   • You can select from among three levels, or off. Each press of the keyboard key causes it to beep the number of times shown below to indicate the current setting.
     Once (long): Off
     Once (short): 1
     Twice: 2
     Three times: 3
   • Setting a smaller value causes lighter touch to produce more powerful sound.
   • Selecting off causes notes to be played at a fixed volume, regardless of the key press velocity.

Using the MIDI Recorder
You can use the built in MIDI recorder to record your performance and play it back when you want.

■ Recording Capacity
• You can record approximately 5,000 notes in Digital Piano memory.

■ Recorded Data
• Keyboard play
• Tone used for keyboard play
• Beat (Track 1 only)
• Tempo setting (Track 1 only)
• Layer setting (Track 1 only)
• Duet (Track 1 only)
• Temperament (Track 1 only)
• Keyboard volume (Track 1 only)
• Chorus (Track 1 only)
• Brilliance (Track 1 only)
• PX-870: Hall Simulator setting (Track 1 only)
• PX-770: Reverb setting (Track 1 only)
• PX-870: Acoustic Simulator setting (Track 1 only)
• PX-770: Damper Noise On/Off (Track 1 only)

■ Recording Data Storage
• Starting a new recording deletes any data that was previously recorded in memory.
• Should power fail during recording, all of the data in the track you are recording will be deleted.

> **IMPORTANT!**
> • CASIO COMPUTER CO., LTD. takes no responsibility for any damages, lost profits, or claims by third parties arising from the loss of deleted recorded data due to malfunction, repair, or for any other reason.
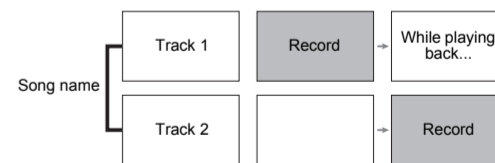

■ Tracks
A "track" is a location where your performance is recorded. This Digital Piano has two tracks, and the status of each is indicated by the L/R lamps of the ▶/■ button.

L   ▶/■   R
Track 1   Track 2
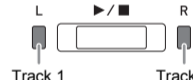
Lamp	Status
Unlit	Off
Lit	Playback standby or playback in progress
Flashing	Recording standby or recording in progress

> **NOTE**
> • You can record each track separately and then combine them so they play back together as a single song.

Track 1   Record   While playing back...
Song name   Track 2   Record

■ To record keyboard play

1. **Press the MIDI REC button once or twice so the MIDI REC lamp is flashing.**
   This enters record standby.

2. **Hold down the FUNCTION button and press the ▶/■ button once or twice until the lamp of the track to be recorded is flashing.**

3. **To start recording, press the ▶/■ button or start playing.**
   Recording can also be started by pressing a pedal or performing another operation.
   • If, while recording is in progress, you want to re-record from the beginning, hold down the **MIDI REC** button until the Digital Piano beeps. This discards the current recording data and enters recording standby.
   • To stop recording, press the ▶/■ button or **MIDI REC** button.

■ To play back a recorded performance

1. Press the **MIDI REC** button once or twice (Until the MIDI REC lamp is lit.)

This enters playback standby.

2. Hold down the **FUNCTION** button and press the ▶/■ button once or twice until the lamp of the track to be played back is lit.

• To play back both tracks, make sure that both the L and R lamps are lit.

3. Press the ▶/■ button.

This starts playback.
• To stop playback, press the ▶/■ button.

■ To play back from one track as you record to another track

1. Press the **MIDI REC** button once or twice (Until the MIDI REC lamp is lit.)

This enters playback standby.

2. Hold down the **FUNCTION** button and press the ▶/■ button once or twice until the lamp of the track to be played back is lit.

3. Press the **MIDI REC** button so the MIDI REC lamp is flashing.

This enters record standby.

4. Hold down the **FUNCTION** button and press the ▶/■ button once or twice until the lamp of the track to be recorded is flashing.

5. Press the ▶/■ button or start playing.

This starts recording and playback.
• If you want to re-record from the beginning, hold down the **MIDI REC** button until the Digital Piano beeps.
• To stop playback and recording, press the ▶/■ button.

■ To delete a recorded performance

IMPORTANT!
• A track delete operation cannot be undone. Deleted data is unrecoverable.

1. Press the **MIDI REC** button once or twice so the MIDI REC lamp is flashing.

2. Hold down the **FUNCTION** button and press the ▶/■ button once or twice until the lamp of the track to be deleted is flashing.

3. Hold down **MIDI REC** until the MIDI REC lamp is lit.

This enters delete standby.

4. Hold down the **FUNCTION** button and press the ▶/■ button.

This deletes the contents of the selected track.
• To exit the above operation at any point, press the **MIDI REC** button once or twice so the MIDI REC lamp is unlit.

Applying Hall Simulation (PX-870)

Hall simulation makes it possible to simulate the rich clarity, unconstrained brilliance, and other distinctive acoustic characteristics of world-famous concert halls.

1. Hold down the **FUNCTION** button and press Hall Simulator key of the simulation to be applied.

Name	Description
DUTCH CHURCH	Amsterdam church with acoustics that are suitable for music
STANDARD HALL	Standard concert hall
BERLIN HALL	Berlin arena type classic concert hall
FRENCH CATHEDRAL	Large Gothic cathedral in Paris

Applying Reverb (PX-770)

1. Each press of the **REVERB** button toggles reverb between on and off.

Reverb is applied when it is turned on.

■ To select the reverb type

1. While holding down the **FUNCTION** button, press the keyboard key of the reverb type to be applied.

1: Room
2: Small hall
3: Large hall
4: Stadium

Using the Audio Recorder (PX-870)

You can record your performances as audio files to a USB flash drive and play them back when you want.
Anything played on the Digital Piano is recorded to the USB flash drive as audio data (WAV file*).
* Linear PCM, 16bit, 44.1 kHz, Stereo

Bottom

USB flash drive port (PX-870)
USB Port
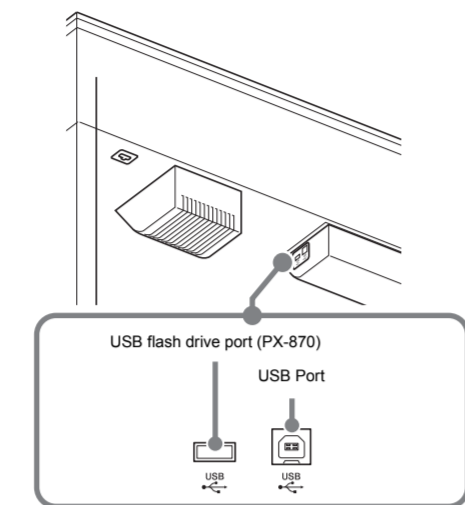
■ Recording Capacity
• 99 files (TAKE01.WAV to TAKE99.WAV)
• Approximately 25 minutes maximum recording per file.

■ Recorded Data
• Everything played on the Digital Piano
• 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.

IMPORTANT!
• Do not remove the USB flash drive from the USB flash drive port while the AUDIO REC lamp is flashing. Doing so interrupts recording and may corrupt data.
• A yellow flashing **METRONOME** button lamp indicates an error. For more information, see "Error Indicators (PX-870)" on this page of these instructions.

■ To record keyboard play

1. Insert the USB flash drive into the USB flash drive port.

• When you plug in a USB flash drive, the Digital Piano performs a mounting sequence to prepare for data exchange with the USB flash drive. The L and R lamps flash and Digital Piano operations are temporarily disabled during the mounting sequence.
• It may take up to 10 or 20 seconds or even longer for USB flash drive mounting to finish. Do not perform any operation on the Digital Piano mounting is in progress.
• A USB flash drive needs to be mounted each time it is connected to the Digital Piano.

2. Press the **AUDIO REC** button once or twice so the AUDIO REC lamp is flashing.

This enters record standby.

3. To start recording, press the ▶/■ button or start playing.

This starts recording to the USB flash drive.
• Recording can also be started by pressing a pedal or performing another operation.
• If, while recording is in progress, you want to re-record from the beginning, hold down the **AUDIO REC** button until the Digital Piano beeps. This discards the current recording data and enters recording standby.
• To stop recording, press the ▶/■ button or **AUDIO REC** button.
To record more, perform the above procedure from step 2.

■ To play back data recorded on a USB flash drive

1. Press the **AUDIO REC** button once or twice so the AUDIO REC lamp is lit.

This enters playback standby.

2. Select the song you want to play back.

If you want to play back the last file you recorded, jump directly to step 3.
● To select the previous song
Hold down the **FUNCTION** button and press the Select Music Library Song minus (–) key.
Each press scrolls back one song.
● To scroll in file number sequence
Hold down the **FUNCTION** button and press the Select Music Library Song plus (+) key.
Each press scrolls forward one song.
● To specify a file number
Use the Select Music Library Song number keys (0 through 9) to specify the file number (1 to 99) you want. (TAKE01.WAV, TAKE02.WAV, etc.)
The Digital Piano beeps if a file with the specified number does not exist.

3. To start playback, press the ▶/■ button.
• To stop song play, press the ▶/■ button.

■ To delete an audio file from a USB flash drive

Files can be deleted one at a time.

IMPORTANT!
• Note that the file (recorded data) delete operation cannot be undone.

1. Press the **AUDIO REC** button once or twice so the AUDIO REC lamp is lit.

This enters playback standby.

2. Select the song you want to delete.

If you want to delete the last file you recorded, jump directly to step 3.
● To select the previous song
Hold down the **FUNCTION** button and press the Select Music Library Song minus (–) key.
Each press scrolls back one song.
● To scroll in file number sequence
Hold down the **FUNCTION** button and press the Select Music Library Song plus (+) key.
Each press scrolls forward one song.
● To specify a file number
Use the Select Music Library Song number keys (0 through 9) to specify the file number (1 to 99) you want. (TAKE01.WAV, TAKE02.WAV, etc.)
The Digital Piano beeps if a file with the specified number does not exist.

3. Press the **AUDIO REC** button so the AUDIO REC lamp is flashing.

4. Hold down the **AUDIO REC** button until the AUDIO REC lamp lights.

This enters delete standby, which is indicated by the L and R lamps flashing.

5. Hold down the **FUNCTION** button and press the ▶/■ button.

This deletes the file and enters audio recorder playback standby.
• To exit the above operation at any point, press the **AUDIO REC** button once or twice so the AUDIO REC lamp is unlit.

NOTE
• The file number of the file you delete remains unused (remaining files are not renumbered). Recording a new file causes the file number that comes after the last file recorded to the USB flash drive to be assigned to the new file.

Error Indicators (PX-870)

The information below shows how the lamps indicate the error type by flashing or lighting when an error occurs due to data transfer failure or some other reason.

Lamps	Error Type	Cause	Action
	No Media	1. The USB flash drive is not connected to the USB flash drive port. 2. The USB flash drive was removed while some operation was in progress. 3. The USB flash drive is write-protected. 4. The USB flash drive is protected by anti-virus software.	1. Correctly plug the USB flash drive into the USB flash drive port. 2. Do not remove the USB flash drive while any operation is in progress. 3. Write-enable the USB flash drive. 4. Use a USB flash drive that is not protected by anti-virus 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 appropriate location in the "MUSICLIB" or "AUDIO" folder. For information about folders, refer to the "User's Guide (Full)".
	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.	Delete some files from the USB flash drive to make room for new data or use a different USB flash drive.
	File Full	1. There are too many files on the USB flash drive. 2. There is a file named TAKE99.WAV in the "AUDIO" folder.	1. Delete some of the files on the USB flash drive to make room for new data. 2. Delete the WAV file from the "AUDIO" folder.
	Wrong Data	1. The USB flash drive data is corrupted. 2. USB flash drive contains data that is not supported by this Digital Piano.	—

Lamps	Error Type	Cause	Action
	Format	1. The USB flash drive format is not compatible with this Digital Piano. 2. USB flash drive memory is corrupted.	1. Format the USB flash drive on the Digital Piano. 2. Use a different USB flash drive.
	Media R/W	USB flash drive memory is corrupted.	Use a different USB flash drive.

Troubleshooting

If this happens:	Do this:
No sound is produced when I press a keyboard key.	1. Rotate the **VOLUME** knob more towards "MAX". 2. Disconnect whatever is connected to the **PHONES/OUTPUT** jack. 3. Turn on the Local Control setting. For details, refer to the "User's Guide (Full)".
The pitch of the Digital Piano is off.	1. Change the transpose setting to "0". Or turn power off and then back on. 2. Change the tuning setting to 440.0 Hz. Or turn power off and then back on. 3. Change the octave shift setting to "0". For details, refer to the "User's Guide (Full)". 4. Change the temperament setting to "00: Equal".
Nothing happens when I press a pedal.	Check the orientation of the pedal unit plug and makes sure it is inserted as far as it goes. For the correct plug orientation, see "To connect the cables" under "Assembling the Stand" of page 4/4 of these instructions.
Tones and/or effects sound strange. Turning power off and then back on again does not eliminate the problem. Example: No change in intensity when key press pressure (touch) is changed	Turn off Auto Resume, and then turn power off and then back on again. For details, refer to the "User's Guide (Full)".
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. 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.	This happens while 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 causes the effect setting that is built into the tone to change automatically, which causes notes to cut out momentarily or a slight change in how effects are applied. It does not indicate malfunction
I need to reset all Digital Piano data and settings to their initial defaults.	Hold down the **FUNCTION**, **MIDI REC** and **E.PIANO1** buttons, and press the power button to turn on power.
I need to reset a specific setting to its initial default.	Hold down the **FUNCTION** button and press the + and – keyboard keys of the setting at the same time.

Product Specifications

Model	PX-870BK/PX-870BN/PX-870WE	PX-770BK/PX-770BN/PX-770WE
Keyboard	88-key piano keyboard, with Touch Response	88-key piano keyboard, with Touch Response
Maximum Polyphony	256 notes	128 notes
Tone	19 types • Layer (excluding bass tones)	19 types • Layer (excluding bass tones)
Acoustic Simulator	Damper Resonance (Damper Noise on/off), Hammer Response, String Resonance, Lid Simulator, Key Off Simulator, Key On Action Noise, Key Off Action Noise	Damper Resonance (Damper Noise on/off), Hammer Response
Effects	Brilliance (–3 to 0 to 3), Hall Simulator (4 types), Chorus (4 types), DSP, Head Phone Mode, Volume Sync Equalizer	Brilliance (–3 to 0 to 3), Reverb (4 types), Chorus (4 types), DSP
Metronome	• Beats: 0 to 9 • Tempo range: 20 to 255	• Beats: 0 to 9 • Tempo range: 20 to 255
Duet Mode	Adjustable tone range (–2 to 2 octaves)	Adjustable tone range (–2 to 2 octaves)
Concert Play	• Songs: 10 • Song volume: Adjustable • Part On/Off: L, R (Lesson Mode only) • 3 Modes: LISTEN, LESSON, PLAY	• Songs: 10 • Song volume: Adjustable • Part On/Off: L, R (Lesson Mode only) • 3 Modes: LISTEN, LESSON, PLAY

Music Library	• Songs: 60; 10 download songs (Up to approximately 90 KB per song, up to approximately 900 KB/10 songs total)*
	  * Based on 1 KB = 1024 bytes
	• Song volume: Adjustable
	• Part On/Off: L, R
		• Songs: 60; 10 download songs (Up to approximately 90 KB per song, up to approximately 900 KB/10 songs total)*
		  * Based on 1 KB = 1024 bytes
		• Song volume: Adjustable
		• Part On/Off: L, R

Recorder	MIDI Recorder • Modes: Real-time recording, playback • Songs: 1 • Tracks: 2 • Capacity: Approximately 5,000 notes total • Recording storage: Built-in flash memory Audio Recorder • USB flash drive real-time recording and playback; Linear PCM, 16bit, 44.1 kHz, stereo .WAV format • Songs: 99 files • Approximately 25 minutes maximum recording per file. • Audio file volume: Adjustable	MIDI Recorder • Modes: Real-time recording, playback • Songs: 1 • Tracks: 2 • Capacity: Approximately 5,000 notes total • Recording storage: Built-in flash memory
Pedals	Damper (seamless half-pedal support), sostenuto, soft	Damper (half-pedal supported), sostenuto, soft
Other Functions	• Touch Response: 3 levels, Off • Transpose: 2 octaves (–12 to 0 to +12) • Tuning: 415.5 Hz to 440.0 Hz to 465.9 Hz (0.1 Hz steps) • Temperament: Equal + 16 other types • Octave Shift: 4 octaves (–2 to 0 to +2) • Panel Lock	• Touch Response: 3 levels, Off • Transpose: 2 octaves (–12 to 0 to +12) • Tuning: 415.5 Hz to 440.0 Hz to 465.9 Hz (0.1 Hz steps) • Temperament: Equal + 16 other types • Octave Shift: 4 octaves (–2 to 0 to +2) • Panel Lock
MIDI	16-channel multi-timbre receive	16-channel multi-timbre receive
USB Memory	• Supported capacity: 32 GB or less recommended • Functions: SMF playback, recorded song storage, song data import, formatting, audio data playback and storage	–
Input/Output Terminals	• PHONES/OUTPUT jacks: Stereo standard jacks × 2 • AC Adaptor Terminal: 24 VDC • USB port: Type B • USB flash drive port: Type A • Pedal connector	• PHONES/OUTPUT jacks: Stereo standard jacks × 2 • AC Adaptor Terminal: 12 VDC • USB port: Type B • Pedal connector
Speakers	φ12cm × 2 + φ4cm × 2 (Output: 20W + 20W)	φ12 cm × 2 (Output: 8W + 8W)
Power Requirements	AC adaptor: AD-E24250LW • Auto Power Off: Approximately 4 hours; Can be disabled.	AC adaptor: AD-A12150LW • Auto Power Off: Approximately 4 hours; Can be disabled.
Power Consumption	24V ⎓ 20W	12V ⎓ 18W
Dimensions	Piano and Stand: 139.3(W) × 29.9(D) × 80.1(H) cm (54 7/8 × 11 3/4 × 31 9/16 inches)	Piano and Stand: 139.1(W) × 29.9(D) × 79.8(H) cm (54 13/16 × 11 3/4 × 31 7/16 inches)
Weight	Piano and Stand: Approximately 34.3 kg (75.6 lbs)	Piano and Stand: Approximately 31.5 kg (69.4 lbs)

• Specifications and designs are subject to change without notice.

Linking with an Application (APP Function)

Your Digital Piano can connect with a smartphone, tablet, or other smart device. A special app is available to display music scores and a piano roll display to support your practice.

Downloading the Special App

Go to the website below to download the app and install it on your smart device.
http://web.casio.com/app/en/

Included Accessories
● AC adaptor
● Power cord
● Music Stand
● Leaflets
  • Safety Precautions
  • Other (Warranty, etc.)
Items included as accessories are subject to change without notice.
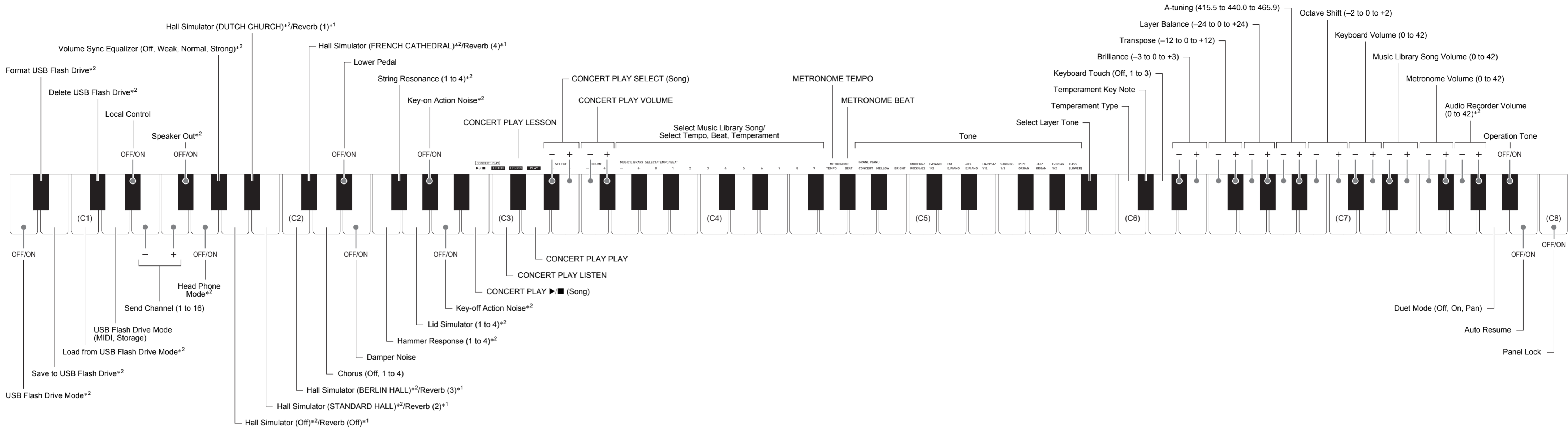
Separately Available Accessories
• You can get information about accessories that are separately for this product from the CASIO catalog available from your retailer, and from the CASIO website at the URL below.
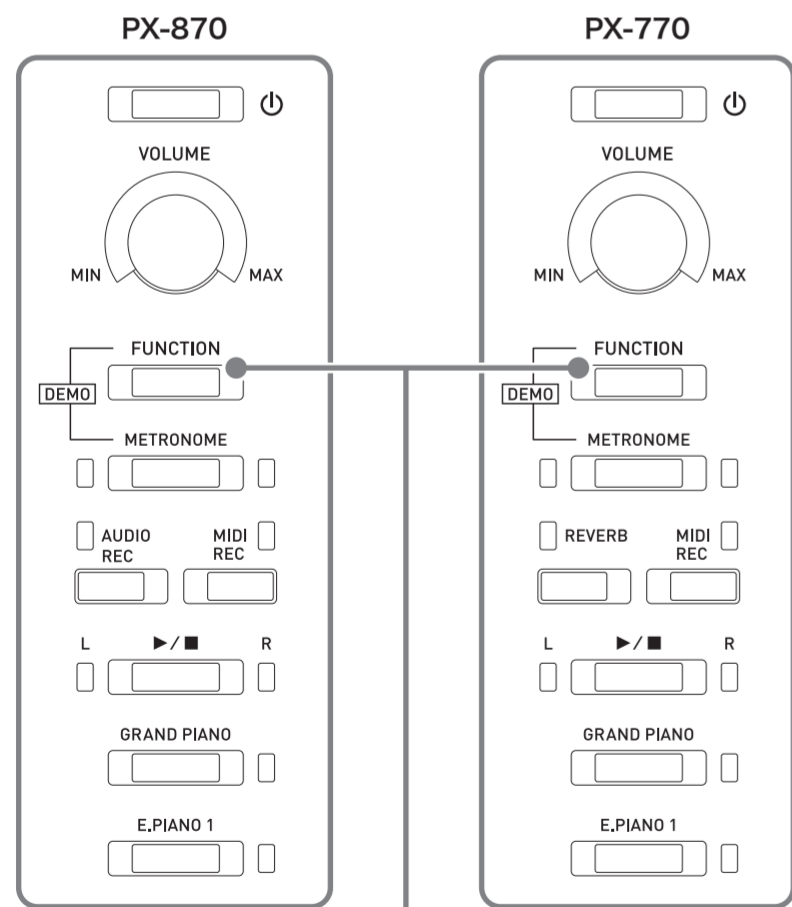
http://world.casio.com/

## Keyboard Keys Used for Configuring Settings

*1: PX-770
*2: PX-870

Format USB Flash Drive*2 — OFF/ON
Delete USB Flash Drive*2 — OFF/ON
Local Control — OFF/ON
Speaker Out*2 — OFF/ON
Send Channel (1 to 16) — OFF/ON
Head Phone Mode*2
USB Flash Drive Mode (MIDI, Storage)
Load from USB Flash Drive Mode*2
Save to USB Flash Drive*2
USB Flash Drive Mode*2
Volume Sync Equalizer (Off, Weak, Normal, Strong)*2
Hall Simulator (DUTCH CHURCH)*2/Reverb (1)*1
Hall Simulator (FRENCH CATHEDRAL)*2/Reverb (4)*1
Lower Pedal
String Resonance (1 to 4)*2 — OFF/ON
Key-on Action Noise*2 — OFF/ON
Key-off Action Noise*2
Lid Simulator (1 to 4)*2
Hammer Response (1 to 4)*2
Damper Noise
Chorus (Off, 1 to 4)
Hall Simulator (BERLIN HALL)*2/Reverb (3)*1
Hall Simulator (STANDARD HALL)*2/Reverb (2)*1
Hall Simulator (Off)*2/Reverb (Off)*1
CONCERT PLAY SELECT (Song)
CONCERT PLAY VOLUME
CONCERT PLAY LESSON
CONCERT PLAY PLAY
CONCERT PLAY LISTEN
CONCERT PLAY ▶/■ (Song)
Select Music Library Song/Select Tempo, Beat, Temperament
METRONOME TEMPO
METRONOME BEAT
Tone
Select Layer Tone
Temperament Type
Temperament Key Note
Keyboard Touch (Off, 1 to 3)
Brilliance (–3 to 0 to +3)
Transpose (–12 to 0 to +12)
Layer Balance (–24 to 0 to +24)
A-tuning (415.5 to 440.0 to 465.9)
Octave Shift (–2 to 0 to +2)
Keyboard Volume (0 to 42)
Music Library Song Volume (0 to 42)
Metronome Volume (0 to 42)
Audio Recorder Volume (0 to 42)*2
Operation Tone — OFF/ON
Duet Mode (Off, On, Pan)
Auto Resume
Panel Lock

(C1) (C2) (C3) (C4) (C5) (C6) (C7) (C8)

Piano Buttons

PX-870
VOLUME MIN — MAX
FUNCTION / DEMO
METRONOME
AUDIO REC / MIDI REC
L ▶/■ R
GRAND PIANO
E.PIANO 1

PX-770
VOLUME MIN — MAX
FUNCTION / DEMO
METRONOME
REVERB / MIDI REC
L ▶/■ R
GRAND PIANO
E.PIANO 1

Using the FUNCTION Button

The FUNCTION button is used in combination with other buttons and keys.
To change a setting, hold down the FUNCTION button as you press the button or key that is assigned the setting you want to configure.
• When you press a key, the Digital Piano beeps to indicate the current setting.
• A long beep indicates that a setting is turned off.
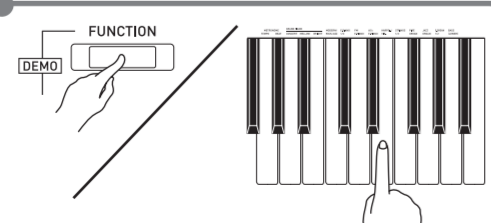
Tone List

Tone Name	Program Change	Bank Select MSB
GRAND PIANO CONCERT	0	0
GRAND PIANO MELLOW	1	0
GRAND PIANO BRIGHT	2	0
MODERN PIANO	3	0
ROCK PIANO	4	0
JAZZ PIANO	5	0
ELEC.PIANO 1	6	0
ELEC.PIANO 2	7	0
FM E.PIANO	8	0
60'S E.PIANO	9	0
HARPSICHORD	10	0
VIBRAPHONE	11	0
STRINGS 1	12	0
STRINGS 2	13	0
PIPE ORGAN	14	0
JAZZ ORGAN	15	0
ELEC.ORGAN 1	16	0
ELEC.ORGAN 2	17	0
BASS(LOWER)	18	0

Music Library List

Song No.	Song Name
1	Nocturne Op.9-2
2	Fantaisie-Impromptu Op.66
3	Étude Op.10-3 "Chanson de l'adieu"
4	Étude Op.10-5 "Black Keys"
5	Étude Op.10-12 "Revolutionary"
6	Étude Op.25-9 "Butterflies"
7	Prélude Op.28-7
8	Valse Op.64-1 "Petit Chien"
9	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	Invention 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 Etüden Op.100]
55	La Styrienne [25 Etüden Op.100]
56	Ave Maria [25 Etüden Op.100]
57	Le retour [25 Etüden Op.100]
58	La chevaleresque [25 Etüden Op.100]
59	No.13 [Études de Mécanisme Op.849]
60	No.26 [Études de Mécanisme Op.849]

Concert Play List

Song No.	Song Name
1	Je Te Veux
2	Vltava (Má vlast)
3	Canon
4	Tableaux d'Une Exposition "Promenade"
5	Piano Concerto No.20 K.466 2nd Mov.
6	Polovetzian Dance (Prince Igor)
7	Sonate K.331 1st Mov.
8	Violin Concerto 1st Mov.
9	Jesus, Bleibet Meine Freude
10	Melody In F

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.

Digital Piano Finish

The finish of the Digital Piano has been designed to faithfully reproduce the appearance of natural wood, including cuts and other marks in the wood. Though knots, saw blade marks, and/or other marks may be visible on the finish, they are not actual cracks or scratches. Such marks will not cause any problems with the use of your Digital Piano.

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.

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: ◇‒⬡‒◇

About Music Score data

You can use a computer to download music score data from the CASIO Website.
For more information, visit the URL below.
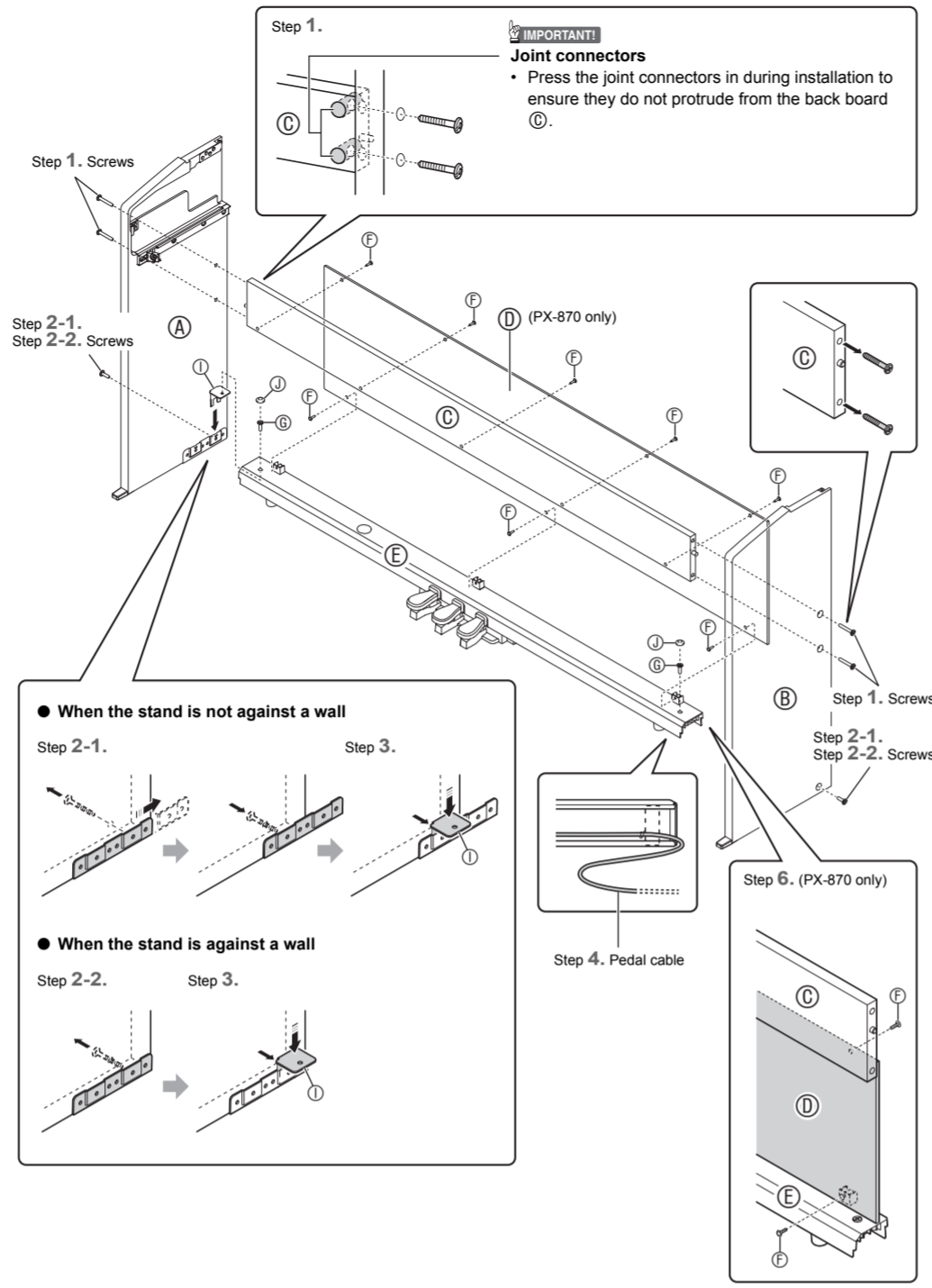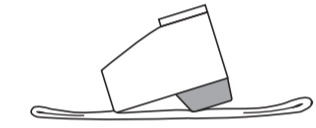
http://world.casio.com/

Assembling the Stand

• Before starting assembly, check to make sure that you have all the parts shown below.
• This stand does not include any of the tools required for assembly. It is up to you to prepare a large Phillips head (+) screwdriver for assembly.

⚠ IMPORTANT!
• **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.**
• **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 the packing material.
• If screws are missing or damaged, contact your local CASIO service provider.
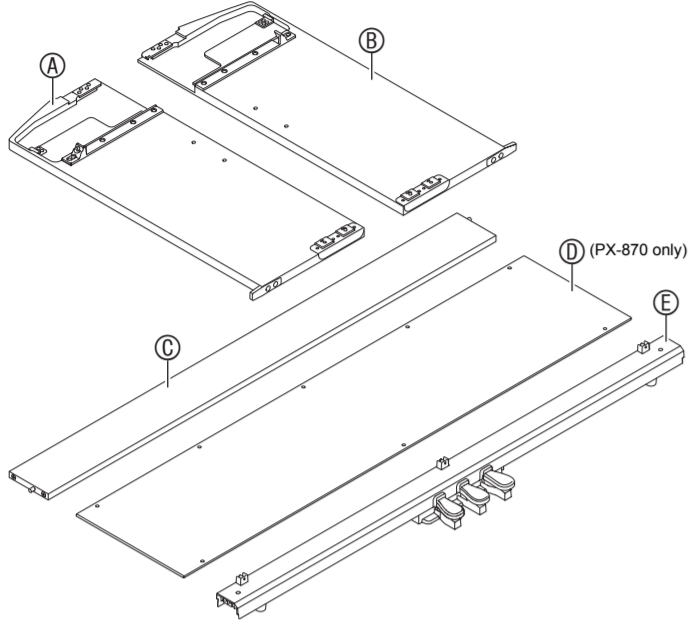
Part		Quantity
Ⓕ		8 (PX-870)
Ⓖ		2
Ⓗ		4
Ⓘ		2
Ⓙ		2
Ⓚ		6
Ⓛ		2

⚠Caution!
• To assemble the stand, at least two persons should work together on a flat surface.
• Take care that you do not pinch your fingers between parts when assembling them.
• Spread felt or some other type of cloth under the bench to avoid direct contact between the rubber at the tips of the legs and the floor surface. Direct contact between the rubber and flooring can cause discoloration, marring, or other damage to the flooring.
• When placing the Digital Piano on the floor, be sure to place it on something soft (a blanket, cushion, etc.) Do not place the Digital Piano directly onto the floor.

Step 1.

⚠ IMPORTANT!
Joint connectors
• Press the joint connectors in during installation to ensure they do not protrude from the back board Ⓒ.

Step 1. Screws

Step 2-1.
Step 2-2. Screws

Step 1. Screws

● When the stand is not against a wall
Step 2-1.   Step 3.

● When the stand is against a wall
Step 2-2.   Step 3.

Step 4. Pedal cable

Step 6. (PX-870 only)

1. Remove the four screws (two on each end) from the back board Ⓒ, and use them to secure side panels Ⓐ and Ⓑ to the back board Ⓒ.
• Attach the side panels so the side of the back board Ⓒ where you inserted the joint connectors is facing towards the back of the stand.
• If you have trouble inserting a screw into a joint connector screw hole, use a screwdriver to adjust the joint connector by rotating it.

2-1. If you plan to locate the piano and stand where it is not against a wall, you need to extend the anti-tip brackets at the base of side panels Ⓐ and Ⓑ. Remove the four screws (two on the inside of each panel) that secure the brackets in place and then slide the brackets out as shown in the illustration. After extending the anti-tip brackets, replace the screws you removed. Do not fully tighten the screws yet.

2-2. If you plan to locate the stand against a wall, loosen the four screws at the base of side panels Ⓐ and Ⓑ (two on the inside of each panel) that keep the anti-tipping brackets from sliding.
• In this case, do not remove the screws. Just loosen them.

3. Insert Ⓘ brackets into the space between each of the anti-tipping brackets and side panels Ⓐ and Ⓑ, then temporarily tighten the screws you partially tightened in step 2-1 or loosened in step 2-2.

4. Place the two ends of the pedal unit Ⓔ onto the Ⓘ brackets and secure them with Ⓙ screws. Finish with Ⓙ screw caps.
• Run the pedal cable out from the pedal unit Ⓔ.

5. While pressing the pedal unit down towards the floor, securely tighten the screws you partially tightened in step 3.

(PX-870 only)
6. Attach the back panel Ⓓ to the back board Ⓒ and pedal unit Ⓔ using Ⓕ screws.
• Place the back panel Ⓓ onto pedal unit Ⓔ so it is in front of the three screw lugs of the pedal unit.

7. From the back of the assembled stand, slide the piano into the grooves of side panel Ⓐ and side panel Ⓑ.

8. Use Ⓗ screws to secure the piano to the stand from both the front and the back.

9. After confirming that all screws are securely tightened, cover the heads with Ⓚ screw caps.

Back

Front

To connect the cables

1. Making sure that the pedal unit cable plug is oriented as shown in the illustration below, plug it into the pedal connector on the bottom of the piano.

Bottom

Pedal connector

a. Push the plug fully into the connector as far as it goes.
b. Use clips Ⓛ to secure the pedal cable to two panel Ⓑ locations.

a.

b.

Ⓑ (PX-870 only)

2. Plug the AC adaptor that comes with the Digital Piano (PX-870: 24 VDC, PX-770: 12 VDC) into the AC adaptor terminal. 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.

AC adaptor plug

AC adaptor unit

Household power outlet

Supplied power cord

Attaching the Music Stand

PX-870
1. Insert the tabs on the bottom of the music stand into the two holes on the top of the piano.
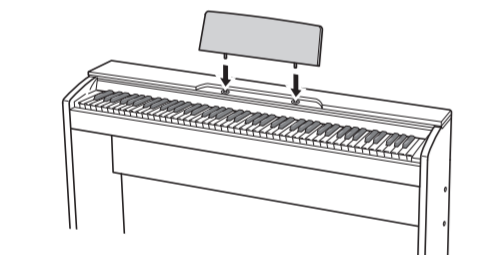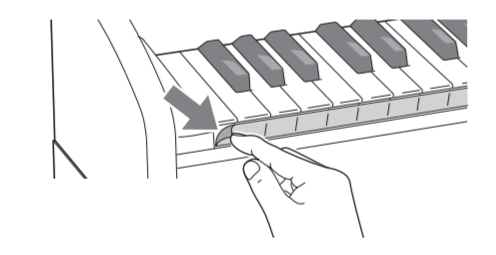

PX-770
**1.** Slide the music stand under the two bolts on the top of the piano and then tighten the bolts.
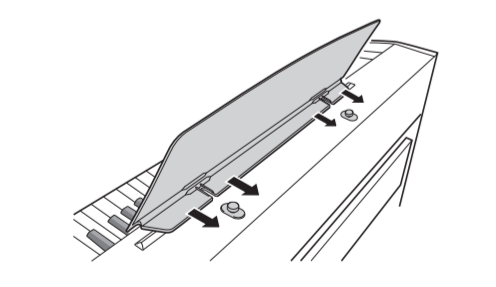
Removing the Protective Tape from the Keyboard

Protective tape is affixed to the front edges of the keyboard keys to protect them during shipment. Remove the protective tape before using the Digital Piano.

• Peel off the tape by pulling carefully towards you as shown in the illustration.
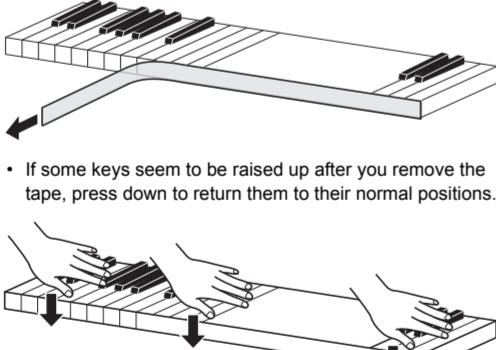
• If some keys seem to be raised up after you remove the tape, press down to return them to their normal positions.

Important!
Please note the following important information before using this product.
• Before using the AD-E24250LW/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-E24250LW/AD-A12150LW adaptor.
• The AC adaptor is not a toy.
• Be sure to disconnect the AC adaptor before cleaning the product.

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

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

■ 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.

AC Adaptor Handling Precautions

Model: AD-E24250LW/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.