

Look What You Can Do!

Play the Piano Play various sounds

The unit contains a wide variety of tones (sounds).

You can freely select and perform using these tones.

Play two layered tones

You can layer two tones on a single key

Play different tones with your left and right hands

You can divide the keyboard into left and right zones, and select a different tone for each zone

Play duets

You can divide the keyboard into left and right halves, playing it as though it were two pianos

§ Practice songs

Sound a metronome

You can sound a metronome.

Practice along with the built-in songs

The unit contains numerous built-in songs.

For the song titles, refer to "Internal Song List" (separate leaflet)

Practice each hand separately

You can practice along with a song while listening to only the right-hand or left-hand part play back.

Record songs

♪ Record your performances

You can record your own playing.

Use your computer to create a CD of a song you recorded
 □ Page 36

A song you've recorded can be copied to your computer, and written to a CD.



Adjust the keyboard touch

page 19

You can adjust the touch sensitivity of the keyboard to match your own playing style.

Add reverberation to the sound

page 18

You can add reverberation (ambience) to create the sensation of performing in a concert hall

Adjust the brightness of the sound



You can adjust the tone quality of the sound, ranging from a brilliant timbre to a mellow tone.



& Convenient Functions

♪ Transpose the pitch of the keyboard or song

page 21

The Transpose function lets you shift the pitch of the keyboard or a song so that you can perform more conveniently.

Disable the buttons

page 42

The Panel Lock function lets you prevent sounds or settings from being changed when buttons are pressed inadvertently.

♪ Adjust the resonance of chords

page 47

The way in which the piano's soundboard vibrates can be adjusted with "Soundboard Behavior," a setting that lets you modify the way chords resonate.

♪ Switch the temperament

page 46

You can switch between various temperaments, such as historic temperaments used during the Barogue era.

♪ Connect to a Wireless LAN



You can use a WNA1100-RL wireless USB adapter (sold separately) to connect to a wireless LAN and use wireless applications, such as the iPad app.

Environmentally Friendly Energy-Efficient Design

The power will turn off after a specified time has elapsed

page 39

When thirty minutes have elapsed since you last played or operated the unit, the power will turn off automatically.

* If you don't want the power to turn off automatically, change the "Auto Off" setting (p. 39).

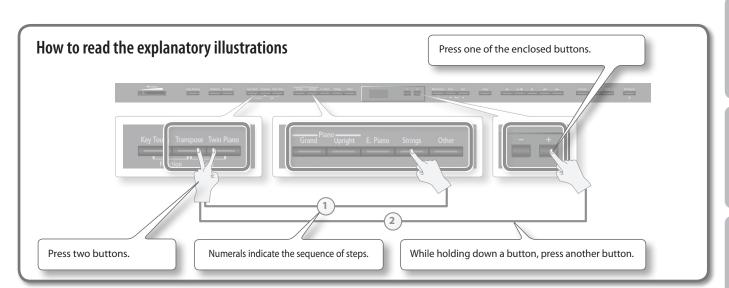
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Before using this unit, carefully read the sections entitled: "USINGTHE UNIT SAFELY" (p. 58), and "IMPORTANT NOTES" (p. 60). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, Owner's Manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

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Operation Guide

Adding Reverberation (Ambience)

You can add a pleasant reverberation to the sounds, producing the impression that you are performing in page 18 a concert hall.

To turn ambience on

Press the [Ambience] button so it's lit.

To adjust the ambience

While holding down the [Ambience] button, press the [-] [+]

Adjusting the Brightness of the Sound (Brilliance)

You can adjust the brightness of the sound you play from the keyboard or the sounds of a song you play page 18 back.

To turn brilliance on

Press the [Brilliance] button so it's lit.

To adjust the brilliance

While holding down the [Brilliance] button, press the [-] [+]

Adjusting the Overall Volume

Adjust the volume.





Adjusting the Song Volume

(Song Balance)

By modifying the playback volume of the song, you can adjust the balance between the song and your keyboard performance.

To turn song balance on

Press the [Song Balance] button so it's lit.

To adjust the song balance

While holding down the [Song Balance] button, press the [-] [+] buttons.

Adjusting the Keyboard Touch

(Key Touch)

You can adjust the way in which the keyboard responds to your playing.

page 19

To turn key touch on

Press the [Key Touch] button so it's lit.

To adjust the key touch

While holding down the [Key Touch] button, press the [-] [+] buttons.

Transposing Your Performance

(Transpose)

You can transpose the notes you play on the keyboard or the notes of a song you play back.

page 21

To turn transpose on

Press the [Transpose] button so it's lit.

To adjust the amount of transposition

While holding down the [Transpose] button, press the [-] [+] buttons.

Retaining the settings even after power-off (memory backup)

The unit allows you to adjust numerous settings, but these settings will return to their default values as soon as you turn off the

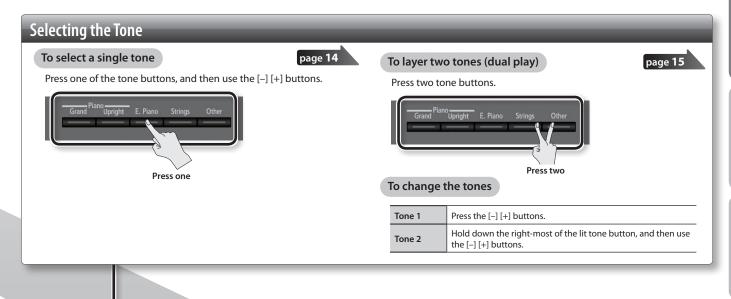
page 39

However, by using the Memory Backup feature, you can have the changes you've made in settings be retained.

1. While holding down the [Key Touch] button, press the [Transpose] button.



- **2.** Use the [◀] [▶] (Slow/Fast) buttons to select "Memory Backup."
- **3.** Press the [Song] button.
- **4.** Use the [▶] (Fast) button to select "Y."



Dividing the Keyboard for Two-person Performance (Twin Piano)

This function divides the keyboard into left and right, allowing two people to play the same range of pitches.

To turn twin piano on

page 20

Press the [Twin Piano] button so it's lit.

To change how the sounds are heard

While holding down the [Twin Piano] button, press the [-] [+] buttons.

	1 (Doi:)	The sound of the right-hand keyboard zone will be heard more loudly from the right speaker than from the left speaker.
1 (Pair)	i (Pair)	The sound of the left-hand keyboard zone will be heard more loudly from the left speaker than from the right speaker.
2 (Indi- vidual)	The sound of the right-hand keyboard zone will be heard only from the right speaker.	
	•	The sound of the left-hand keyboard zone will be heard only from the left speaker.

Playing Different Tones with the Right and Left Hands (Split Play)

This function divides the keyboard into left and right zones, allowing you to play a different tone in each zone.

To turn split on

page **16**

While holding down the [Transpose] button, press the [Twin Piano] button.



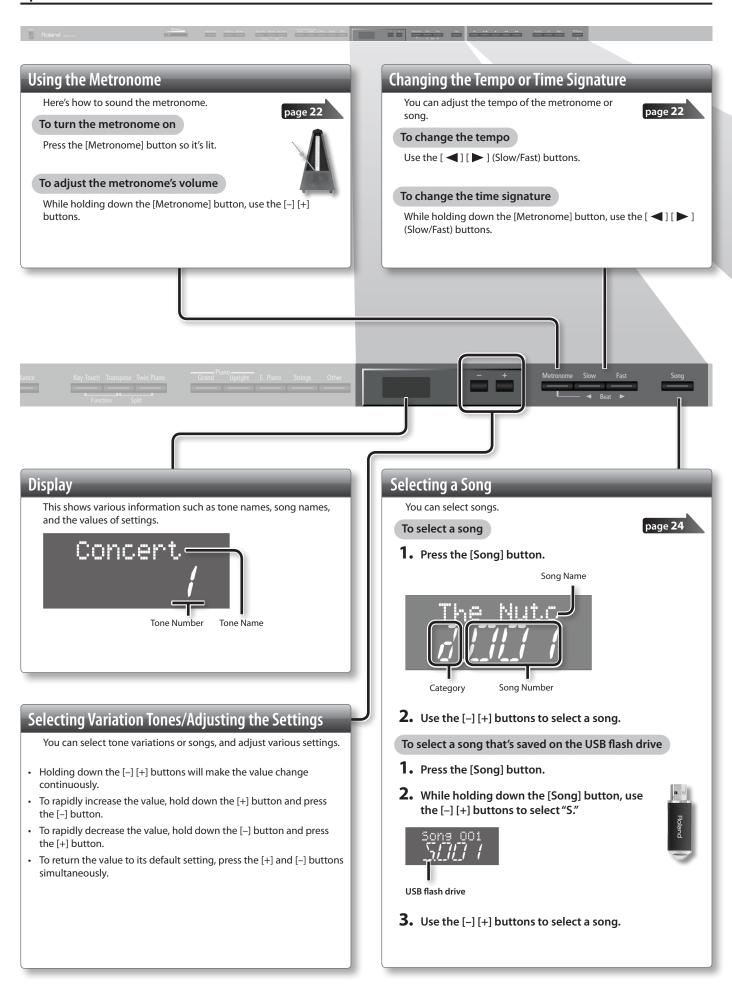
To change the tones

Right-hand folie	2. Press the [–] [+] buttons.
Left-hand Tone	While holding down the [Transpose] button and [Twin Piano] button, press a tone button.
Left-nand fone	While holding down the [Transpose] button and [Twin Piano] button, use the [-] [+] buttons.

1. Press a tone button.

Changing the keyboard's split point

While holding down the [Transpose] button and [Twin Piano] button, play the key that you want to specify as the split point.



Selecting the Parts that will Play (Part Mute)

Here's how to select the parts that will play.

page 26

To select the right-hand part	Press the [Right] button so it's lit.
To select the left-hand part	Press the [Left] button so it's lit.
To select the other parts	Press the [Accomp] button so it's lit.

To adjust the mute volume of a part

Hold down the button of the part whose volume you want to adjust, and use the [–] [+] buttons.

Repeatedly Practicing a Portion of a Song (AB Repeat)

Here's how you can make a specific portion of a song play back repeatedly.

page 28

- Press the [►/] (Play/Stop) button to play back the song.
- 2. At the beginning of the portion to be repeated, press the [AB Repeat] button.
- 3. At the end of the portion to be repeated, press the [AB Repeat] button once again.





AB Repeat

Recording/Playback

Here's how to play back or record a song.

page 24

page **29**

Press the [■] (Reset) button.
Press the [▶/■] (Play/Stop) button.
While stopped, press the [●] (Rec) button.
While in recording-standby mode, press the [►/■] (Play/Stop) button.
Press the [◀◀] (Bwd) button.
Press the [>>] (Fwd) button.

Disabling the Buttons (Panel Lock)

Hold down the [AB Repeat] button until the display shows "Lock."

page 42

To cancel panel lock

Hold down the [AB Repeat] button once again for a while.

To play all songs

page 25

While holding down the [Song] button, press the [\blacktriangleright / \blacksquare] (Play/ Stop) button.

To make a new recording

page **29**

- 1. Select the tone that you want to play.
- 2. Press the [] (Rec) button.
- **3.** Press the [►/] (Play/Stop) button to start recording.
- **4.** Press the [►/] (Play/Stop) button to stop recording.

To overdub

page 30

- 1. Select the tone to be played.
- 2. Select the song to be dubbed.
- **3.** Press the [] (Rec) button.
- **4.** Press the [+] button.
- **5.** Press the button of the part that you want to record, making it blink.
- **6.** Press the [►/] (Play/Stop) button to start recording.
- **7.** Press the [►/] (Play/Stop) button to stop recording.



Panel Descriptions

[Power] Switch

This turns the power on/off.

page 13

* The power to this unit will be turned off automatically after a predetermined amount of time has passed since it was last used for playing music, or its buttons or controls were operated (Auto Off function).



If you do not want the power to be turned off automatically, disengage the Auto Off function (p. 39).

- * Any settings that you are in the process of editing will be lost when the power is turned off. If you have any settings that you want to keep, you should refer to "Retaining the Settings Even After Power-off (Memory Backup)" (p. 39) and save your settings.
- * To restore power, turn the power on again.
- * When turning the power on again, you must allow at least five seconds after power-off before you once again turn the power on.

 If you fail to allow anough time, the Auto Off function might not be reset.

If you fail to allow enough time, the Auto Off function might not be reset, preventing the power from turning on correctly.

USB Memory Port

If a USB flash drive is connected, you can

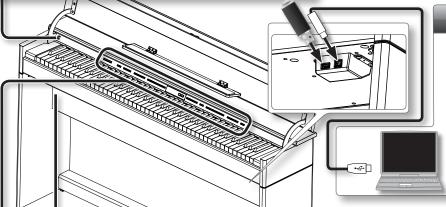
page 24 page 37

use it to save or play back songs.

You can do the following things using a USB flash drive.



- WAVE files or MIDI files (SMF) data copied from your computer can be played back by the unit.
- You can make audio recordings of your performances on the unit.
- The audio recordings of songs that you've made can be played on your computer, or burned to a CD.
- * Carefully insert the USB flash drives all the way in-until it is firmly in place.
- * Use a USB flash drive sold by Roland. We cannot guarantee operation if any other USB flash drive is used.



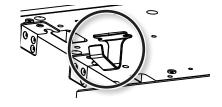
USB Computer Port

If you use a commercially available USB cable to connect the unit' to your computer, you'll be able to do the following things.

- SMF data played back by MIDI-compatible software can be sounded by the unit.
- MIDI data can be transferred between the unit and your sequencer software (sold separately), opening up a wide range of possibilities for music production and editing.

Headphone Hook

Whenever you are not using the headphones, you can hang them on the headphone hook.



* Don't hang anything other than headphones on this hook, and don't apply excessive force to it.

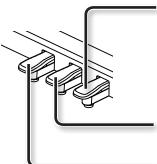
Doing so may damage the headphone hook.

Front Panel

These buttons and sliders are used to operate the unit.

"Operation Guide" page 6–9

Pedals



Damper Pedal

Use this pedal to sustain the sound. While this pedal is held down, notes will be sustained for an extended time even if you release your fingers from the keyboard.

On an acoustic piano, when you step on the damper pedal, you'll first hear the sound of the dampers releasing the strings. Then, you should also be able to hear the sound of strings adjacent to the ones for the notes actually played resonate sympathetically, resulting in a rich, resounding tone. Additionally, when using half-pedaling techniques, the core of the sound disappears rapidly while a rich, spacious resonance remains, producing a unique form of reverberation. On the unit, the unique, lingering tones produced by the half-pedaling technique are reproduced in addition to released-string sounds (Damper Noise) and resonating sounds (Damper Resonance).

Sostenuto Pedal

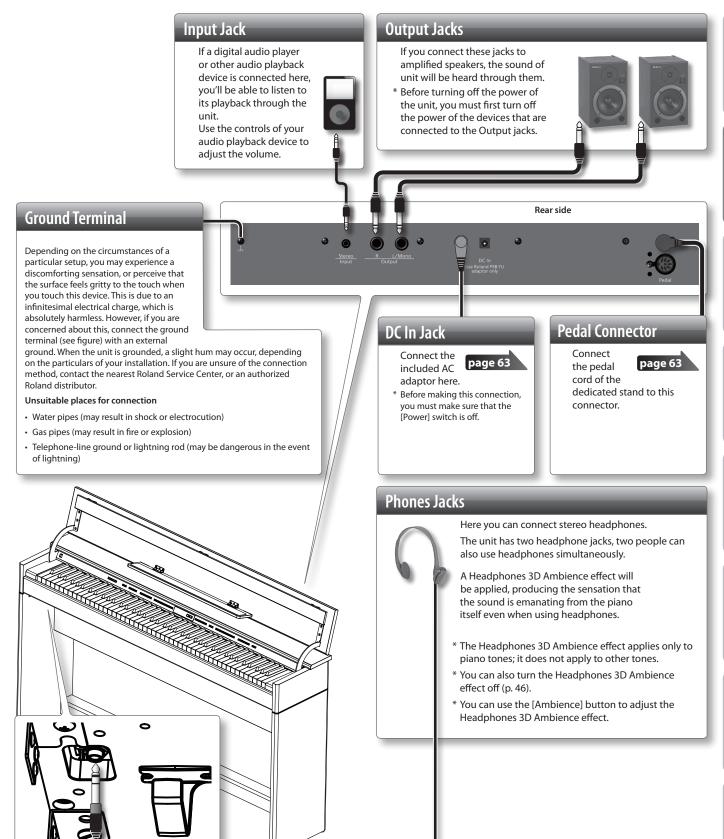
The notes you are pressing when this pedal is depressed will be sustained.

Soft Pedal

This pedal is used to make the sound softer.

Playing with the soft pedal depressed produces a sound that is not as strong as when otherwise played with the equivalent strength. This is the same function as the left pedal of an acoustic piano.

The softness of the tone can be varied subtly by the depth to which you press the pedal.



- * To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.
- * When connection cables with resistors are used, the volume level of equipment connected to the Input jack may be low. If this happens, use connection cables that do not contain resistors.

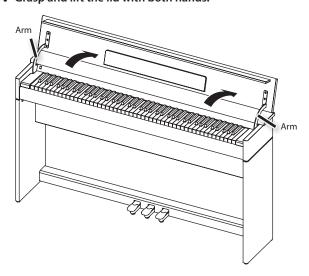


Before You Play

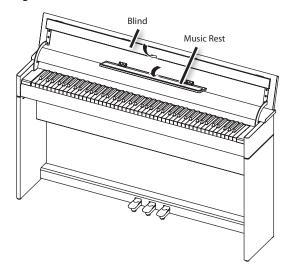
Opening the Lid

NOTE

- Always use two hands to open and close the lid.
 Although the unit's lid is designed to close slowly and gently when it is released, the lid immediately closes if it has been opened only slightly. Take care not to allow your fingers to become pinched by the lid.
- If small children will be using the unit, adult supervision should be provided.
- For safety, be sure to close the lid before transporting the piano.
- 1. Grasp and lift the lid with both hands.

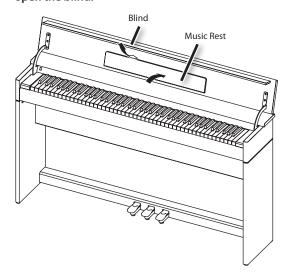


2. Close the blind and open the music rest as shown in the figure.

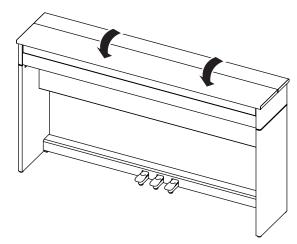


Closing the Lid

 When closing the lid, be sure to close the music rest and open the blind.

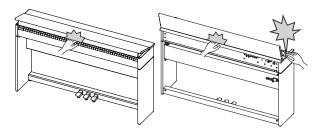


2. Grasp and gently lower the lid with both hands.



NOTE

When opening or closing the lid, take care not to pinch your finger in the lid or the arms.

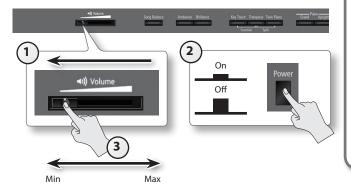


Turning the Power On/Off

Once everything is properly connected (p. 11), be sure to follow the procedure below to turn on their power. If you turn on equipment in the wrong order, you risk causing malfunction or equipment failure.

NOTE

Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.



If you don't want the power to turn off automatically, change the "Auto Off" setting to "0FF"!

The power to this unit will be turned off automatically after a predetermined amount of time has passed since it was last used for playing music, or its buttons or controls were operated (Auto Off function).

If you do not want the power to be turned off automatically, disengage the Auto Off function (p. 39).

NOTE

- · Any settings that you are in the process of editing will be lost when the power is turned off. If you have any settings that you want to keep, you should refer to "Retaining the Settings Even After Power-off (Memory Backup)" (p. 39) and save your settings.
- To restore power, turn the power on again (p. 13).
- · When turning the power on again, you must allow at least five seconds after power-off before you once again turn the power on. If you fail to allow enough time, the Auto Off function might not be reset, preventing the power from turning on correctly.

Turning the power on

- 1. Move the [Volume] slider all the way to the left to minimize the volume.
- **2.** Press the [Power] switch.

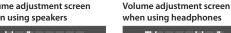
After a brief interval, you'll be able to produce sounds by playing

- * This unit is equipped with a protection circuit. A brief interval (a few seconds) after turning the unit on is required before it will operate normally.
- 3. Use the [Volume] slider to adjust the volume.

Adjust the volume while playing something on the keyboard, so you can hear how it sounds.

This will adjust the volume of the speakers if you're using the speakers of the unit, or the volume of the headphones if headphones are connected. Each volume setting (for speaker or headphone) is saved automatically.

Volume adjustment screen when using speakers







The unit is designed so that nuances in the dynamics of your playing will be clearly heard even at low volume, and that the sound will remain clear even at high volume.

Turning the power off

- 1. Move the [Volume] slider all the way to the left to minimize the volume.
- 2. Press the [Power] switch.

The power is turned off.

§ Performing

Performing with Various Sounds

In addition to piano sounds, the unit lets you enjoy performing with many other sounds (350 types).

These sounds are called "Tones." The Tones are categorized into five groups, each of which is assigned to a different Tone button.

Selecting Tones

Let's start by performing with a piano tone.

When you turn on the power, the Concert (Concert Piano) tone is selected.



1. Press a tone button to select the tone group.

The currently selected tone number and tone name are displayed.



Tone groups

Tone button	Description	
Piano [Grand] button	Selects grand piano sounds.	
Piano [Upright] button	Upright] button Selects upright piano sounds.	
[E. Piano] button	[E. Piano] button Selects various electric piano sounds used in pop or rock.	
[Strings] button	Selects the sounds of string instruments such as violins, as well as other instruments used in orchestras.	
	Selects a variety of sounds such as organ, bass, or accompaniment sounds.	
[Other] button	* If you select tone numbers 43–51, you'll be able to use the keyboard to play the sounds of a drum set or SFX.	
	* If you've selected an organ sound that provides a rotary effect (*1), such as a Jazz Org or a Balad Or, pressing the [Other] button will switch the speed of the rotary effect.	

For details on the tones, refer to "Tone List" (p. 54).

2. Use the [–] [+] buttons to select a variation within the tone group.

Auditioning tones (tone demo)

1. While holding down a tone button, press the [►/■] (Play/Stop) button.

A tone demo that uses the first tone of each tone group will begin playing back.

2. To stop the tone demo, press the [Song] button or the [►/ ■] (Play/Stop) button.

What are effects?

Some of the tones provide a wide variety of other effects that can modify the sound in various ways.

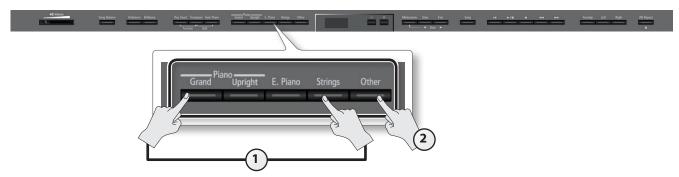
The rotary effect is one of these effects.

^{*1} Rotary is an effect which simulates the sound of rotating speakers. There is a choice of two settings: Fast and Slow.

^{*} If you've selected a drum set tone or an SFX set tone, some notes of the keyboard will not produce sound.

Performing with Two Layered Tones (Dual Play)

You can play two tones simultaneously from each note of the keyboard. This feature is called Dual Play. As an example, here's how to layer piano and strings tones.



1. While holding down the Piano [Grand] button, press the [Strings] button.

Both buttons will light.

When you play the keyboard, you'll hear both the piano and the strings tones.

- * Dual play is not available if Split Play (p. 16) or Twin Piano (p. 20) are turned on.
- * For some combinations of sounds, the effect is not applied to tone 2, and this may affect how the tone sounds.
- * It's not possible to layer Piano [Grand] and Piano [Upright] tones together.

Selecting tones for dual play

Tone name	Corresponding button	How to select tones
Tone 1	Left tone button	Press the [-] [+] buttons.
Tone 2	Right tone button	While holding down the tone button for Tone 2 (the right-most of the lit Tone buttons), and press the [-] [+] buttons.

2. To exit Dual Play, press one of the tone buttons.

Advanced techniques

Changing the pitch of tone 2 in steps of an octave:

Octave Shift (p. 47)

Specifying the part(s) affected by the damper pedal:

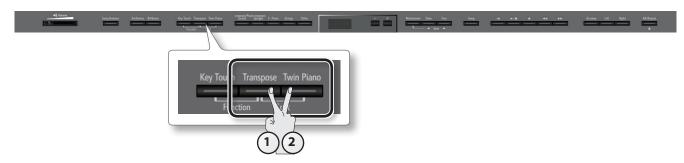
Damper Pedal Part (p. 48)

Adjusting the volume balance of the two tones:

Dual Balance (p. 46)

Playing Different Tones with the Right and Left Hands (Split Play)

You can play different tones in the left and right sides of the keyboard, divided at a certain key. This feature is called Split Play, and the key at which the keyboard is divided is called the Split Point.

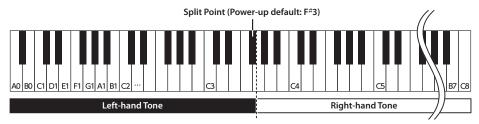


1. While holding down the [Transpose] button, press the [Twin Piano] button.

The display will indicate SPLIT.



When Split is turned on, the keyboard settings will be as follows.

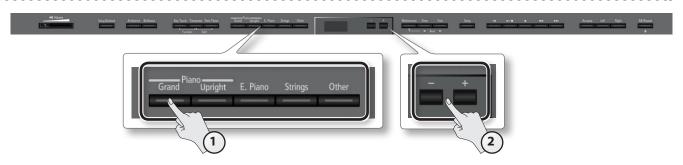


- 2. To exit Split Play, hold down the [Transpose] button and press the [Twin Piano] button once again.
 - * Depending on which tones are being used together, the tones might sound different because no effect is applied to the left-hand tone.

Advanced technique

Specifying the part(s) affected by the damper pedal: Damper Pedal Part (p. 48)

Changing the right-hand tone



1. Press a tone button.

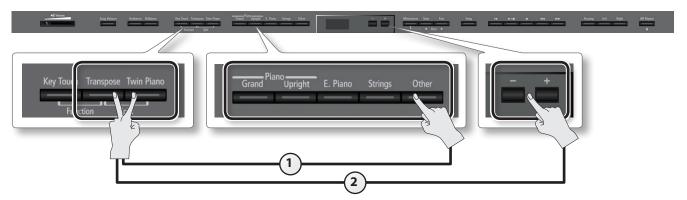
The number and name of tone currently selected for the right-hand zone are shown.



2. Press the [-] [+] buttons.

A different tone is selected.

Changing the left-hand tone



1. While holding down the [Transpose] button and [Twin Piano] button, press a tone button.

The number and name of the tone currently selected for the left-hand zone are shown.



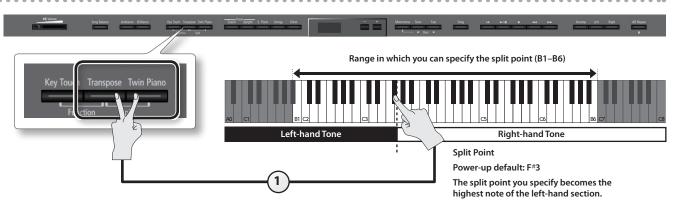
2. While holding down the [Transpose] button and [Twin Piano] button, press the [-] [+] buttons.

A different tone is selected.

Advanced technique

Changing the pitch of the left-hand tone in steps of an octave: Octave Shift (p. 47)

Changing the keyboard's split point



1. While holding down the [Transpose] button and [Twin Piano] button, press the key that you want to assign as the split point. The key you pressed becomes the new split point, and that key will be shown in the display.

Screen	Value
Split	B1–B6
F"3	(default: F#3)

* In the display, a quotation mark (") signifies a sharp (#).

Saving your settings

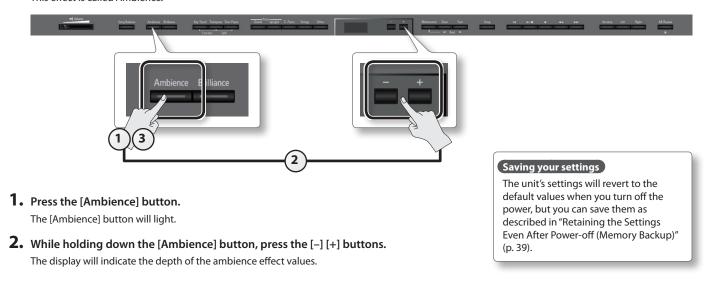
The unit's settings will revert to the default values when you turn off the power, but you can save them as described in "Retaining the Settings Even After Power-off (Memory Backup)" (p. 39).

Adjusting the Sound to Your Taste

The unit lets you add reverberation or modify the brightness of the sound.

Adding Reverberation to the Sound (Ambience)

You can add a pleasant reverberation to the sounds of the unit, producing the impression that you are performing in a concert hall. This effect is called Ambience.



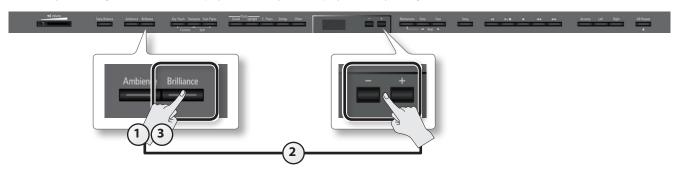
Screen	Value	Explanation
Ambience 5	1–10 (default: 2)	Higher values apply deeper ambience. * If you're using headphones and the Headphones 3D Ambience effect (p. 46) is set to "ON," this lets you adjust the depth of the Headphones 3D Ambience effect.

3. To turn off the ambience effect, press the [Ambience] button once again.

The [Ambience] button will go out.

Adjusting the Brightness of the Sound (Brilliance)

You can adjust the brightness of the sounds played on the keyboard or played back by a song.



1. Press the [Brilliance] button.

The [Brilliance] button will light.

^{*} It's not possible to specify the depth of ambience individually for each tone. The effect will be applied in the same way to each tone.

2. While holding down the [Brilliance] button, press the [-] [+] buttons.

The display will indicate the depth of the brilliance effect values.

Saving your settings

The unit's settings will revert to the default values when you turn off the power, but you can save them as described in "Retaining the Settings Even After Power-off (Memory Backup)" (p. 39).

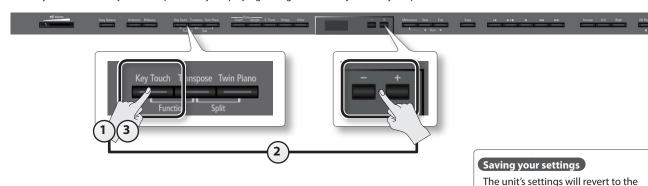
Screen	Value	Explanation
Brliance 5	-10-0-10 (default: 5)	Positive (+) values make the sound brighter; negative (-) values make the sound more mellow.

3. To turn off the brilliance effect, press the [Brilliance] button once again.

The [Brilliance] button will go out.

Adjusting the Keyboard Response (Key Touch)

The way in which the keyboard responds to your playing strength can be adjusted to your personal taste.



1. Press the [Key Touch] button.

The [Key Touch] button will light.

2. While holding down the [Key Touch] button, press the [-] [+] buttons.

The display will indicate the key touch setting.

default values when you turn off the power, but you can save them as described in "Retaining the Settings Even After Power-off (Memory Backup)" (p. 39).

Screen	Value	Explanation
	FIX	The sound plays at one set volume, regardless of the force used to play the keys.
	L2	This setting produces the lightest keyboard touch.
KeyTouch <i>}{</i>	L1	You can achieve fortissimo (ff) play with a less forceful touch than M, so the keyboard feels lighter. This setting makes it easy to play, even for children.
	М	This sets the standard keyboard touch. You can play with the most natural touch. This is the closest to the touch of an acoustic piano.
		This setting is used if the [Key Touch] button is unlit.
	H1	You have to finger the keyboard more forcefully than M in order to play fortissimo (ff), so the keyboard touch
	(default)	feels heavier. Dynamic fingering adds even more feeling to what you play.
	H2	This setting produces the heaviest keyboard touch.

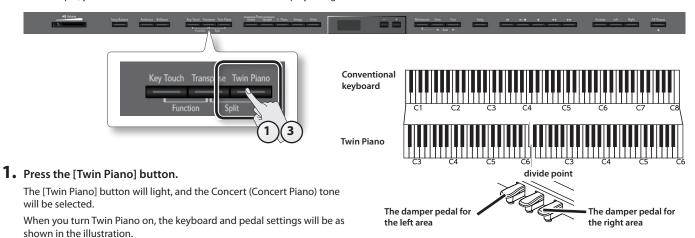
3. To cancel key touch, press the [Key Touch] button once again.

The [Key Touch] button will go out.

Dividing the Keyboard for Two-Person Performance (Twin Piano)

You can divide the keyboard into left and right zones so that two people can play the same range of pitches, just as though there were two pianos. This function is called Twin Piano.

For example, you could use Twin Piano to allow a student to play along with their teacher.



NOTE

If Twin Piano is on, damper resonance will not be applied; this may cause the piano to sound different.

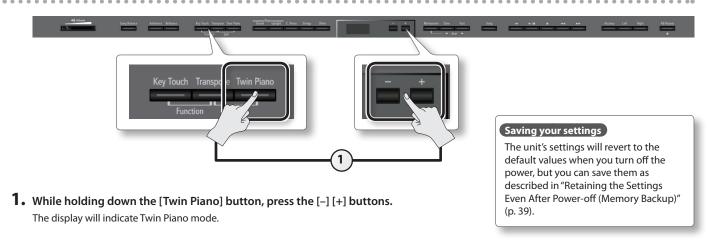
2. Select the tone to be played (p. 14).

The left and right sections will have the same tone.

3. To cancel Twin Piano, press the [Twin Piano] button once again.

The [Twin Piano] button will go out.

Changing the way in which the sound is heard (Twin Piano mode)



Screen	Value	Explanation
TwinPno /	1 (default)	The sound of the right-hand keyboard zone will be heard more loudly from the right speaker than from the left speaker. The sound of the left-hand keyboard zone will be heard more loudly from the left speaker than from the right speaker. When using headphones, you'll be able to hear the other person's playing.
	2	The sound of the right-hand keyboard zone will be heard only from the right speaker. The sound of the left-hand keyboard zone will be heard only from the left speaker. If you're using headphones, the sound of the right-hand keyboard zone will be heard in your right ear, and the sound of the left-hand keyboard zone will be heard in your left ear. * Ambience will turn off. * For some tones, the sound might not be divided to left and right.

Shifting the Pitch (Transpose)

Transpose means to shift the pitches of songs and the keyboard.

The Transpose function makes it easy to do the following.

- You can use unchanged fingering to accompany a singer who is singing in a key different than the original music.
- A song written in a difficult key with numerous sharps (#) or flats (b) can be performed in a key that's easier for you to play.
- Notation of a transposing instrument such as trumpet or sax can be played as written, while hearing the transposed pitches.

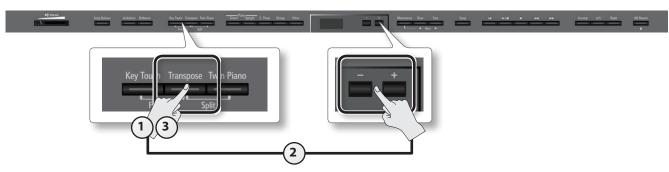
For example if the song is written in E major but you want to play it using the fingering of the key of C major, you would set Transpose to 4.

If you play $C \to G \to It$ will sound $E G^{\#} B$



MEMO

With the factory settings, both the song and the keyboard will be transposed. If you want to transpose only the keyboard or only the song, make the appropriate setting as described in "Specifying What the Transpose will Affect (Transpose Mode)" (p. 47).



1. Press the [Transpose] button.

The [Transpose] button will light.

2. While holding down the [Transpose] button, press the [-] [+] buttons.

The display will indicate the amount of transposition.

Screen	Value	Explanation
Trnspose / /	-6-0-+5 (semitone units) (default: +1)	Positive (+) values raise the pitch in semitone steps, and negative (-) values lower the pitch in semitone steps.

МЕМО

You can also specify this value by holding down the [Transpose] button and playing the note that is the tonic of the key to which you want to transpose.

* If you select a different song, the transposition setting will be canceled.

3. To cancel the transposition, press the [Transpose] button once again.

The [Transpose] button will go out.

Practicing with the Metronome

You can sound the metronome while you practice.

While the song selects, the metronome will sound at the tempo and time signature of the song.





1. Press the [Metronome] button.

The [Metronome] button will blink, and the metronome will sound.

The [Metronome] button will blink red and green according to the currently selected time signature; red indicates the strong beats, and green indicates the weak beats.

2. To stop the metronome, press the [Metronome] button once again.

The [Metronome] button will go out.

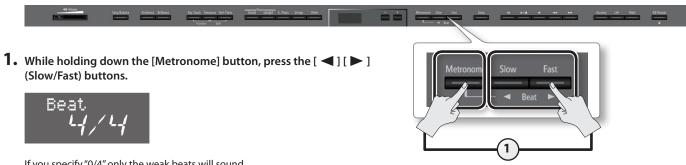


Changing the Tempo



When you select or play back a song (p. 24), the tempo of the metronome will be set to that song's tempo.

Changing the Time Signature



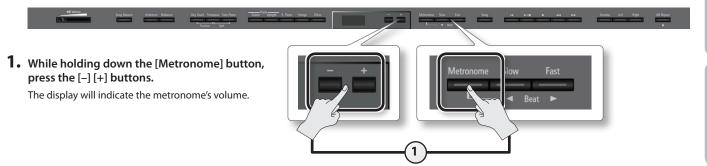
If you specify "0/4" only the weak beats will sound.

When you play back a song, the metronome's time signature will be set to the time signature of that song.

2/2, 0/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 3/8, 6/8, 9/8, 12/8 Available time signatures (default: 4/4)

- * You can't change the metronome's time signature while a song is playing.
- * If you record using 0/4, the song's time signature will be set to 4/4 when you save it.

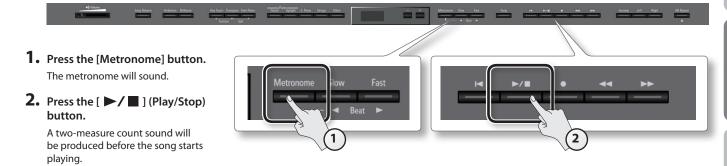
Adjusting the Metronome's Volume



Screen	Value	Explanation
Metr Vol		When the volume of the metronome is set to "0," the metronome won't sound, but the [Metronome] button will blink.

Adding a Count-in to Synchronize Your Performance

A series of sounds rhythmically played to indicate the tempo before a song starts is called a "count-in." If you sound a count-in, it will be easier for you to synchronize your own performance to the tempo of the playback.



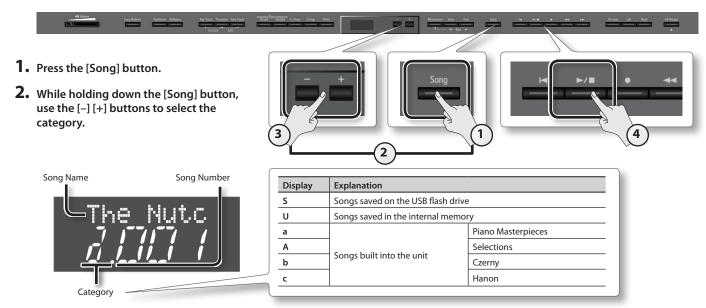
Practicing with a Song

You can practice by playing along with a song.

Selecting and Playing a Song

Here's how to listen to the built-in songs.

You can also play back songs stored on a separately sold USB flash drive.



^{*} If an audio file is selected, a "." (dot) is displayed following the song number.

3. Use the [-] [+] buttons to select a song.

MEMO

Use the following operations to select a song from a folder.

- To enter a folder, use the [–] [+] buttons to select that folder, and then press the [▶/] (Play/Stop) button.
- To select a song within a folder, use the [–] [+] buttons.
- To exit a folder, use the [–] button to select "Fld. UP," and then press the [\blacktriangleright / \blacksquare] (Play/Stop) button.
- * If one folder contains more than 500 files or folder, some of the files or folders might not be displayed.

4. Press the [►/ ■] (Play/Stop) button.

When the song has played to its end, playback will stop.

To pause the playback, press the [>/ | (Play/Stop) button once again.

The next time you press the [>/] (Play/Stop) button, playback will resume from where you paused.

Button operations

[] (Reset) button	Returns you to the beginning of the song.
[N / N] / [Dlav/Chara) button	Plays/stops the song.
[>/] (Play/Stop) button	Starts/stops recording.
[●] (Rec) button	Enter recording – standby mode.
[◀◀] (Bwd) button	Rewinds the song.
[▶▶] (Fwd) button	Fast-forwards the song.

МЕМО

When the song number is displayed, you can press the [Song] button to see the song playback position (the measure number or the time). Press the [Song] button once again to return to the song number indication.

Song formats that can be played by the unit

The unit can play back data in the following formats.

- SMF formats 0/1
- Roland Piano Digital format (i-format)
- Audio files: WAV format, 44.1 kHz, 16-bit linear

Playing Songs Consecutively (All Songs Play)

You can consecutively play back the built-in songs or the songs saved in the internal memory or on the USB flash drive repetitively. This function is called "All Songs Play."

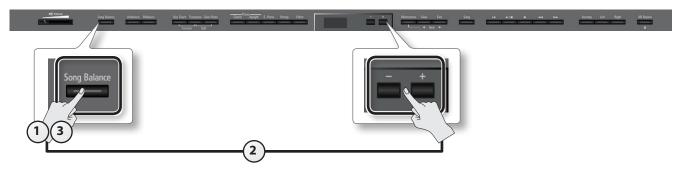
- 1. While holding down the [Song] button, use the [-] [+] buttons to select the category.
- **2.** While holding down the [Song] button, press the [►/■] (Play/Stop) button.

All Songs Play will be selected, and the [\blacktriangleright / \blacksquare] (Play/Stop) button will blink.

* All Song Play will be cancelled if you stop playback or turn off the power.

Adjusting the Volume Balance of the Song and the Keyboard Performance (Song Balance)

You can adjust the balance between the song and your keyboard performance by changing the volume of the song.



1. Press the [Song Balance] button.

The [Song Balance] button will light.

2. While holding down the [Song Balance] button, press the [-] [+] buttons.

The display will show the song balance.

Screen	Value	Explanation
Song Ba <u>l</u>	0–9 (default: 5)	The song's volume decreases the more you lower this value, and at the same time the keyboard performance will take on more prominence. The song's volume increases the more you raise this value, and at the same time the keyboard performance will become less prominent.

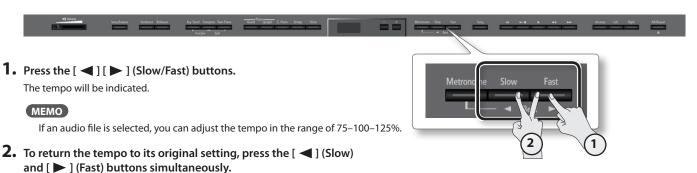
3. To cancel the Song Balance function, press the [Song Balance] button once again.

The [Song Balance] button will go out.

Adjusting a Song's Tempo for Easier Practicing

You can change the tempo at which a song plays back.

When you're practicing along with a song, this allows you to slow down the tempo of a difficult song in order to play it more comfortably.



Playing back at a fixed tempo (tempo mute)

With some of the internal songs, the tempo will change during the song. If desired, you can make these songs play back at a fixed, unchanging tempo.

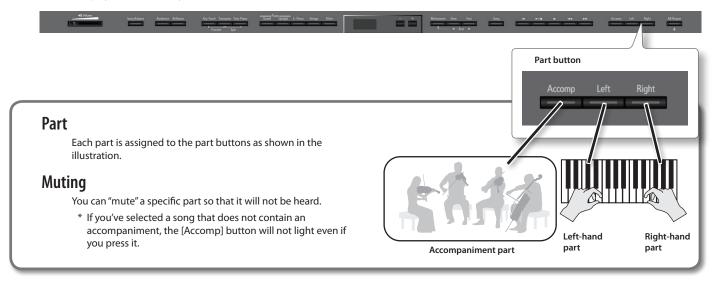
1. With the tempo displayed, holding down the [►/ ■] (Play/Stop) button and press the [◀] [►] (Slow/Fast) buttons to adjust the tempo.

The screen will show the tempo and "." (dot). This "." indicates that the tempo is muted.

2. To cancel tempo mute, once again hold down the [►/ ■] (Play/Stop) button and press the [◀] [►] (Slow/Fast) buttons.

Practicing One Hand at a Time (Part Mute)

Here's how to have only the selected part play back. This allows you to practice playing the left or right-hand part of a song while listening to the other hand played automatically.



1. Press the part button for the part that you don't want to be played.

The light for the button you pressed will go out, and the selected part will not be heard.

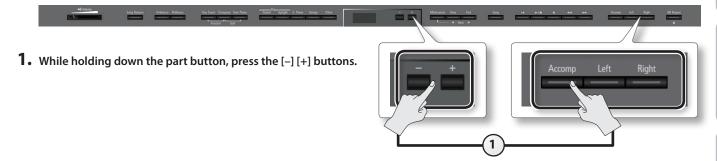
MEMO

- If the accompaniment part is muted, playback will skip the introduction.
- The mute setting will be cancelled when you switch songs.
- Although the Part Mute function cannot be used with respect to the playback of an audio file, you can reduce the volume during playback of sounds that are localized at the center of the sound field, such as vocals or bass. Refer to "Center Cancel" (p. 35).
- 2. To un-mute the sound, press the part button once again so it's lit.

Using the sound of a specific part as a "guide" (mute volume)

If desired, you can specify that the sound of a part will play at a reduced volume rather than going completely silent when you press a part button and turn off its indicator.

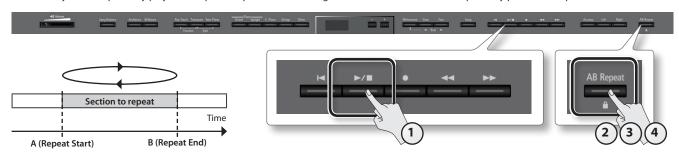
This setting lets you play a specific part at a reduced volume and use it as a "guide" for your playing.



Screen	Value	Explanation
MuteVolA <i>[]</i>	0–10 (default: 0)	Higher values make the sound louder.
MuteVolL []		
MuteVolR []		

Repeatedly Practicing a Portion of a Song (AB Repeat)

Here's how you can repeatedly play back a specified portion of the song. You can use this function to repeatedly practice that portion.



1. Press the [►/ ■] (Play/Stop) button.

The song will play back.

2. Press the [AB Repeat] button at the point where you want to start repeating (point A). The [AB Repeat] button will blink.

3. Press the [AB Repeat] button at the point where you want to stop repeating (point B).

The [AB Repeat] button will light, and playback will begin repeating.

4. To cancel the repeat function, press the [AB Repeat] button once again.

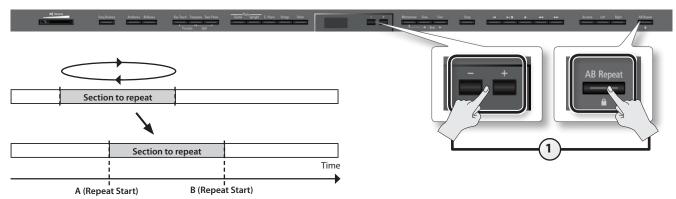
The [AB Repeat] button will go out, the repeat points you specified will be cleared.

MEMO

- The repeat points can be set at the beginning of each measure for an SMF song, or in 1/100th of a second for audio.
- Instead of playing back the song, you can also specify the portion to repeat by using the [◀◀] [▶▶] buttons.

Moving the portion to repeat forward or backward

When AB Repeat is on, you can move the repeated portion forward or backward.



1. While holding down the [AB Repeat] button, press the [-] [+] buttons.

The repeated portion will be moved without its length being changed.



Recording the Song You're Practicing

It's easy to record your own performances.

You can play back a recorded performance to check your playing, or perform along with a recorded performance.

The unit lets you record in the following ways.

Type of recording	Explanation
	Parts will be separate.
	You can re-record a specific portion of the song.
SMF recording	You can overdub.
	* Normally, you should use SMF recording.
	Your performance will be recorded as audio data. The recorded song can be used on your computer.
Audio recording	* In order to use audio recording, you must connect a USB flash drive (sold separately) to the USB memory port (p. 10).

^{*} SMFs (Standard MIDI Files) use a standard format for music file that was formulated so that files containing music file could be widely compatible, regardless of the manufacturer of the listening device. An enormous variety of music is available, whether it be for listening, for practicing musical instruments, for Karaoke, etc.

SMF Recording

To record a new song, proceed as follows.

This method is convenient when you simply want to record your performance as easily as possible.

Getting ready to record



- 1. Select the tone that you want to use for performing (p. 14).
- 2. Press the [] (Rec) button.

The [lacktriangle] (Rec) button will light, the [lacktriangle] (Play/Stop) button will blink, and the unit will enter recording-standby mode.

If you decide not to record, press the [•] (Rec) button once again.

3. If desired, sound the metronome (p. 22).



If you change the metronome's tempo and time signature, they will be recorded with the song, allowing the metronome to sound correctly during playback.

Starting/stopping recording



MEMO

You can also initiate recording by simply playing the keyboard. If you initiate recording by playing the keyboard, a count will not be sounded.

2. Press the [►/■] (Play/Stop) button.

Recording will stop, and a message will ask whether you want to save your performance.



Saving a performance you've recorded

* If you want to save to the USB flash drive (sold separately), connect your USB flash drive to the USB memory port before you continue.

1. Press the [▶] (Fast) button to select "Y."

Saving will begin.

The recorded performance is saved at the earliest vacant song number.

The song is automatically given a name in this format: "Song nnn," where "nnn" is the song number.

NOTE

Never turn off the power while the screen indicates "Working..."

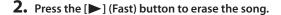
Saving to a specific memory, song number, or song name

If you press the [Song] button instead of the [] (Fast) button, you'll be able to specify the save-destination memory, song number, and song name used for saving.

For details on the procedure, refer to "Saving a Song with the Name You Specify" (p. 37).

Erasing a performance you've recorded

Use the [◄] (Slow) button to select "N."
 A message will ask you to confirm that you want to erase the song.





Listening to a performance you've recorded

Press the [►/ ■] (Play/Stop) button.

Playback will start from the beginning of the recorded performance.

Overdubbing a Recorded Song

When recording an SMF, you can overdub each part separately. For example, you can record the left-hand and right-hand parts separately, or record along with a song.

Recording each hand separately

You can separately record your left-hand performance to the [Left] button and your right-hand performance to the [Right] button. You can also separately re-record each hand afterward.

Getting ready to record



- 1. Select the tone that you want to use for performing (p. 14).
- **2.** Press the [] (Rec) button.

The [●] (Rec) button will light, the [►/ ■] (Play/Stop) button will blink, and the unit will enter recording-standby mode.

If you decide not to record, press the [•] (Rec) button once again.

3. If desired, sound the metronome (p. 22).



If you change the metronome's tempo and time signature, they will be recorded with the song, allowing the metronome to sound correctly during playback.

Recording the left hand



- * If you don't specify a part at this time, the recorded performance will be recorded in this order: [Right] button → [Left] button → [Accomp] button.
- * If you're using Twin Piano or Split Play, the left side or left-hand tone will be recorded to the [Left] button, and the right side or right-hand tone will be recorded to the [Right] button.
- **2.** Press the [►/■] (Play/Stop) button.

MEMO

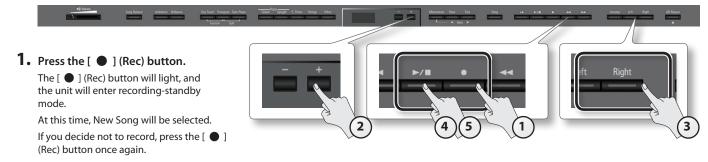
You can also initiate recording by playing the keyboard. In this case, the count will not sound.

3. Press the [►/■] (Play/Stop) button.

Recording will stop, and a confirmation message will ask whether you want to save the recording.

4. Either save the performance or erase it (p. 30).

Overdubbing the right hand



2. Reselect the song you saved earlier by pressing the [+] button.

MEMO

The song's tempo and time signature will be as they were when you recorded the left hand.

3. Press the [Right] button so it's blinking.

In this state, the right-hand performance will be recorded to the [Right] button. Leave the [Left] button lit.

NOTE

If you select a previously recorded part and then record, your new performance will overwrite that part; the previously recorded performance will be lost.

4. Press the [►/ ■] (Play/Stop) button.

A two-measure count will be heard (the measure number will be shown as "-2" then "-1" in the lower right of the display), and then recording will start. The previously recorded performance for the left hand will be played back, so you can listen to it while you play the right-hand part.

When recording starts, the [●] (Rec) button and [►/■] (Play/Stop) button will light.

MEMO

You can also initiate recording by playing the keyboard. In this case, the count will not sound.

5. Press the [►/ ■] (Play/Stop) button.

Recording will stop, and a confirmation message will ask whether you want to save the recording.

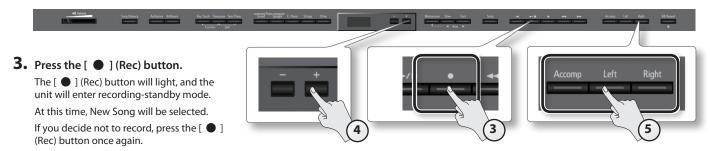
6. Either save the performance or erase it (p. 30).

Recording a performance you play along with a song

Here's how you can record a performance that you play along with a song.

Getting ready to record

- 1. Select the tone that you want record (p. 14).
- 2. Select the song to be dubbed (p. 24).



4. Reselect the song selected in step 2 by pressing the [+] button.

MEMO

The song's tempo and time signature will be according to the settings of the song you selected.

5. Press the part button of the part that you want to record, so it's blinking.

Parts whose buttons are lit will play back during recording.

MEMO

If you want to re-record only a portion of the song, use the [< | (Bwd) button or [>>] (Fwd) button to move to the measure at which you want to start recording.

Starting/stopping recording



You can also initiate recording by simply playing the keyboard. If you initiate recording by playing the keyboard, a count will not be sounded.

2. Press the [►/ ■] (Play/Stop) button.

Recording will stop, and a confirmation message will ask whether you want to save the recording.

3. Either save the performance or erase it (p. 30).

Converting a Song Recorded as an SMF to Audio

By converting a song recorded in the form of an SMF to audio, you'll be able to listen to it on your computer. You can also use your computer to burn the song to a music CD, or upload it to the Internet.

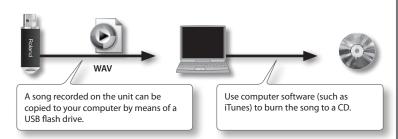
Copying an audio recording of a song to your computer page 36

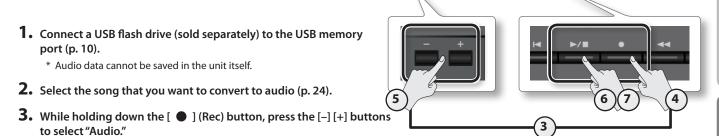
If you save an audio recording of a song on the USB flash drive, you'll be able to listen to it on your computer.

In order for an SMF song recording to be used on your computer, you'll need to convert it to audio (WAV file).

Audio recordings of songs are saved as WAVE files (16-bit, 44.1 kHz).

You can use your computer to burn them to a music CD or upload them to the Internet.





- **4.** Press the [] (Rec) button.
 - The [] (Rec) button will light, and the [►/] (Play/Stop) button will blink; the unit will enter converting-standby mode.

At this time, New Song will be selected.

If you decide not to convert, press the [•] (Rec) button once again.

- **5.** Reselect the song selected in step 2 by pressing the [+] button.
- **6.** Press the [►/] (Play/Stop) button.

The song will play back, and the conversion will begin.

MEMO

If, during conversion, you play the keyboard or input something via the USB port (USB MIDI), all sound including those sounds will be converted. Muted parts will not be converted.

NOTE

- Never turn off the power or disconnect the USB flash drive during conversion.
- For some SMF recordings, it might not be possible to perfectly convert the recording in its original form.
- **7.** To end conversion, press the [►/] (Play/Stop) button.

A confirmation message will ask whether you want to save the file.

MEMO

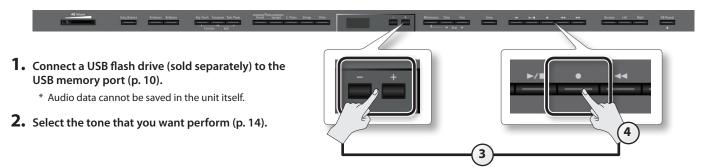
Conversion will continue until you press the [►/ ■] (Play/Stop) button.

8. Either save the performance or erase it (p. 30).

Audio Recording

Here's how to record what you play on the unit as audio data. The recorded song can be used on your computer.

Preparing to record



3. While holding down the [•] (Rec) button, press the [-] [+] buttons to select "Audio."



- **4.** Press the [] (Rec) button.
 - The [•] (Rec) button will light, the [/ I] (Play/Stop) button will blink, and the unit will enter recording-standby mode. If you decide not to record, press the [•] (Rec) button once again.
- 5. If desired, sound the metronome (p. 22).

Starting/stopping recording



- **2.** Press the [►/] (Play/Stop) button.
 - Recording will stop, and a confirmation message will ask whether you want to save the recording.
- 3. Either save the performance or erase it (p. 30).

Transposing a Song for Easier Performance (Audio Transpose)

You can change the key when playing back an audio file. You can play the keyboard while listening to the transposed sound.

1. Press the [Transpose] button.

The [Transpose] button will light.

2. While holding down the [Transpose] button, press the [-] [+] buttons.

The display will indicate the amount of transposition.

Screen	Value	Explanation
Trnspose + /	-6-0-+5 (semitone units) (default: +1)	Positive (+) values raise the pitch in semitone steps, and negative (-) values lower the pitch in semitone steps.

MEMO

With the factory settings, both the audio file and the keyboard will be transposed. If you want transposition to affect only the keyboard or only the audio file, make the appropriate setting as described in "Specifying What the Transpose will Affect (Transpose Mode)" (p. 47).

- * If you select a different song, the audio transposition setting will be canceled.
- 3. To cancel the transposition, press the [Transpose] button once again.

The [Transpose] button will go out.

Enjoying Karaoke with an Audio File (Center Cancel)

When playing back an audio file, you can minimize the sounds that are heard from the center. For example, this allows you to minimize the melody or vocal on a music CD, so that you can play or sing that part instead.

- * For some songs, it might not be possible to completely eliminate the melody sound.
- 1. Press the [Right] button.

The [Right] button will go out, and the melody sound will be minimized.

- * The Center Cancel setting will turn off if you select a different song.
- 2. When you want the sound to be heard, press the [Right] button once again.

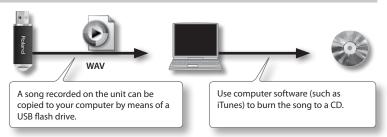
The [Right] button will light.

Burning an Audio Recording of a Song (WAV file) to a CD

After an audio recording of a song has been saved to the USB flash drive, you can copy it to your computer and burn it to a CD. If you want to burn a CD from a song that you recorded as an SMF, you must first convert it to audio (WAV file) (p. 33).

In order to burn a CD on your computer, you'll need software such as "iTunes."

For details, refer to the owner's manual or the online help of your software.



Copy the recorded song to your computer

1. Connect the USB flash drive containing the song to your computer.



If you're using Windows, a

"Removable disk" icon will appear in "Computer." If you're using Mac OS X, a "NO NAME" icon will appear on the desktop.

2. Double-click the icon that appeared.

The contents of the USB flash drive will be displayed.

The audio recording of the song (WAV file) will be among the contents.

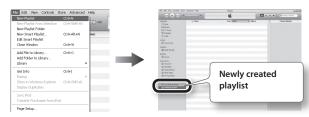
3. Copy the song (WAV file) that you want to burn to CD to your computer's desktop or another location where you can easily find it.



Use iTunes to burn a CD

The following explanation uses iTunes 10 for Windows. If you're using a different version or other software, refer to its online help or owner's manual.

- 1. From the Start menu, click [All Programs] [iTunes].
- 2. From the iTunes [File] menu, click [New Playlist] to create a playlist.

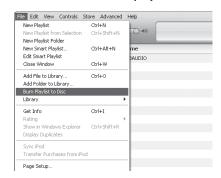


3. From the desktop (or other location) where you copied it, drag and drop the song (WAV file) to add it to the playlist you created in step 2.



4. Insert a blank CD-R into your computer.

5. Select the playlist that you created in step 2, and in the [File] menu, click [Burn playlist to Disc].



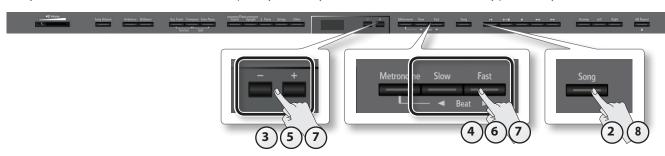
6. Make the appropriate settings in the disc creation dialog box, and then click the [Burn] button.



Saving a Song with the Name You Specify

Immediately after you've finished recording, you can save the song to the memory, song number, and song name that you specify.

* If you want to save to the USB flash drive (sold separately), connect your USB flash drive to the USB memory port before you continue.



1. Make sure that you've finished recording, and that the screen shown at the right is displayed.



2. Press the [Song] button.

The media select screen will appear.

 Use the [-] [+] buttons to select the save-destination media.



Display	Save-destination media	
U	Internal memory	
S	USB flash drive	

* If a USB flash drive (sold separately) is not connected, you won't be able to select "USB Memory."

4. Press the [▶] (Fast) button.

A screen will appear, allowing you to select the song number of save destination.



Use the [-] [+] buttons to select the song number of save destination.

No song has been saved in song numbers shown as (Empty) in the song name column.

Choose a song number in which no song has been saved.

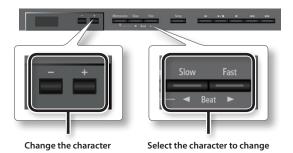
If you want to save your song by overwriting an existing song you no longer need, select the song number of that unwanted song.

6. Press the [▶] (Fast) button.

A screen will appear, allowing you to specify a name for your song.



7. Edit the name using the buttons shown in the illustration below.



Use the $[\blacktriangleleft]$ $[\blacktriangleright]$ (Slow/Fast) buttons to select the position at which you want to specify a character. Use the [-] [+] buttons to change the character.

8. Press the [Song] button to save the song.

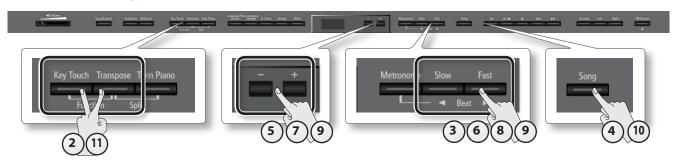
If you decide not to save the song, press the [Metronome] button.

NOTE

Never turn off the power or disconnect the USB flash drive while the screen indicates "Working..."

Renaming a Song

Here's how to rename a song you've saved.



- 1. Select the song that you want to rename (p. 24).
- **2.** While holding down the [Key Touch] button, press the [Transpose] button. The [Key Touch] button and [Transpose] button will light, and the unit will enter Function mode.
- **3.** Use the [◀] [▶] (Slow/Fast) buttons to select "SaveSong."
- 4. Press the [Song] button.

The media select screen will appear.

If you decide not to rename the song, press the [Metronome] button.

5. Use the [-] [+] buttons to select the save-destination media.

Display	Save-destination media
U	Internal memory
S	USB flash drive

6. Press the [▶] (Fast) button.

A screen will appear, allowing you to select the song number of save destination.

7. Use the [-] [+] buttons to select the song number of save destination.

No song has been saved in song numbers shown as (Empty) in the song name column.

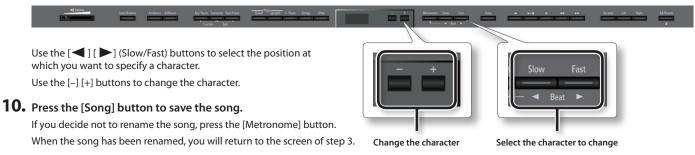
If you want to save the song as a new song, choose a song number in which no song has been saved.

If you want to save your song by overwriting an existing song you no longer need, select the song number of that unwanted song.

8. Press the [▶] (Fast) button.

A screen will appear, allowing you to specify the song name.

9. Edit the song name using the buttons shown in the illustration below.



NOTE

Never turn off the power or disconnect the USB flash drive while the screen indicates "Working..."

11. Press the [Key Touch] button or the [Transpose] button to finish the procedure.



Making the Power Automatically Turn Off After a Time (Auto Off)

With the factory settings, the unit's power will automatically be switched off 30 minutes after you stop playing or operating the unit

Convenient Functions

If you don't need the power to turn off automatically, set "Auto Off" to the "OFF" setting as described below.

- 1. While holding down the [Key Touch] button, press the [Transpose] button.
- 2. Use the [◀] [▶] (Slow/Fast) buttons to select "Auto



3. Use the [–] [+] buttons to change the setting.

Value	Explanation
OFF	The power will not turn off automatically.
10	The power will automatically turn off if no operation is performed for 10 minutes.
30 (default)	The power will automatically turn off if no operation is performed for 30 minutes.
240	The power will automatically turn off if no operation is performed for 240 minutes (4 hours).

- * This setting is automatically stored in the unit.
- **4.** Press the [Key Touch] button or the [Transpose] button to finish the procedure.

NOTE

When turning the unit's power back on after it has been shut down due to the Auto Off function, always make sure to allow at least five seconds to pass after the power has been shut off before you turn the power back on. If you turn it back on too rapidly, the Auto Off function will not have had enough time to reset itself, and you may not be able to turn on the power in the normal way.

Retaining the Settings Even After Power-off (Memory Backup)

The settings of the unit will return to their factory-set state when you turn off the power. However, you can store the settings so that they will be retained even after the power is turned off.

This is called the "memory backup" function.

Parameters Stored in Memory Backup Page		
Ambience (on/off, depth)	p. 18	
Brilliance (on/off, depth)	p. 18	
Split Point	p. 17	
Twin Piano mode	p. 20	
Key Touch (on/off, value)	p. 19	
Damper Resonance	p. 46	
String Resonance	p. 47	
Key Off Resonance	p. 47	
Dynamic Harmonic	p. 47	
Cabinet Resonance	p. 47	

Parameters Stored in Memory Backup Page		
Soundboard Behavior	p. 47	
Note Volume	p. 47	
Note Character	p. 47	
Master Tuning	p. 46	
Temperament	p. 46	
Temperament Key	p. 46	
Stretch Tuning	p. 47	
Volume Limit	p. 50	
Dual Balance	p. 46	
Transpose Mode	p. 47	
Headphones 3D Ambience	p. 46	
Damper Pedal Part	p. 48	
MIDI Transmit Channel	p. 48	
Visual Control Channel	p. 49	

- While holding down the [Key Touch] button, press the [Transpose] button.
- 2. Use the [◀] [▶] (Slow/Fast) buttons to select "Backup."



3. Press the [Song] button.

A screen will appear, allowing you to execute the backup.



4. Press the [▶] (Fast) button to select "Y."

Memory backup will begin.

If you decide to cancel without executing, press the [◀] (Slow) button to select "N."

When the memory backup has been completed, the screen of step 2 will appear.

NOTE

Never turn off the power while the screen indicates "Working..."

Press the [Key Touch] button or the [Transpose] button to finish the procedure.

Restoring the Factory Settings (Factory Reset)

Settings that you've stored using the Memory Backup function (p. 39) can be returned to their factory-set state. This is called the "factory reset" function.

NOTE

When you execute "Factory Reset," all stored settings will be erased and returned to the factory settings.

MEMO

This function will not erase the songs from the internal memory or the USB flash drive (sold separately).

If you want to erase the internal memory or the USB flash drive, "Initializing the Memory (Format Media)" (p. 41).

 While holding down the [Key Touch] button, press the [Transpose] button. Use the [◀] [▶] (Slow/Fast) buttons to select "FctReset."



3. Press the [Song] button.

A screen will appear, allowing you to execute factory reset.



4. Press the [▶] (Fast) button to select "Y."

Factory reset will begin.

If you decide to cancel without executing, press the [◀] (Slow) button to select "N."

When the factory reset has been completed, the screen will indicate "END." $\,$

NOTE

Never turn off the power while the screen indicates "Working..."

5. Turn the power off, then on again (p. 13).

Copying a Saved Song (Copy Song)

Songs that have been saved in the internal memory can be copied to USB flash drive (sold separately). Alternatively, songs stored on the USB flash drive can be copied to the internal memory.

- * Audio files cannot be copied.
- * If a USB flash drive (sold separately) is not connected, you won't be able to perform this operation.
- **1.** While holding down the [Key Touch] button, press the [Transpose] button.
- **2.** Press the [◀] [▶] (Slow/Fast) button to choose "Copy Song."



3. Press the [Song] button.

A screen will appear, allowing you to select the copy-source and destination memory locations.



If you decide not to copy the song, press the [Metronome] button.

- **4.** Use the [–] [+] buttons to select the copy-source and copy-destination memory locations.
- **5.** Press the [▶] (Fast) button.



6. Press the [-] [+] button to select the song that you want to copy.

MEMO

If you choose "ALL," all songs except for audio files in the copysource memory will be copied.

7. Press the [▶] (Fast) button.



8. Use the [–] [+] buttons to select the copy-destination number.

No song has been saved at song numbers for which (Empty) is shown as the song name.

Select a song number at which no song has been saved.

If you want to delete an unwanted song and replace it with the song you're copying, select the unwanted song number.

9. Press the [Song] button to copy the song.

If you decide not to copy, press the [Metronome] button.

Once the song has been copied, you'll be returned to the screen of step 2.

NOTE

Never turn off the power or disconnect the USB flash drive while the screen indicates "Working..."

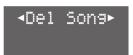
10. Press the [Key Touch] button or the [Transpose] button to finish the procedure.

Deleting a Saved Song (Delete Song)

Here's how to delete a song that you saved on the internal memory or the USB flash drive (sold separately).

MEMO

- If you want to delete all songs that have been saved to the internal memory, initialize the memory.
- If you want to delete a song on the USB flash drive (sold separately), connect your USB flash drive to the USB memory port before you continue.
- 1. While holding down the [Key Touch] button, press the [Transpose] button.
- 2. Use the [◀] [▶] (Slow/Fast) buttons to select "Del Song."



3. Press the [Song] button.

A screen will appear, allowing you to select the memory location that contains the song you want to delete.



If you decide not to delete the song, press the [Metronome] button.

4. Use the [-] [+] buttons to select the memory location that contains the song you want to delete.

5. Press the [▶] (Fast) button.



- **6.** Use the [-] [+] buttons to select the song that you want to delete.
- 7. Press the [Song] button.

A confirmation message will appear.



8. Press the [►] (Fast) button to select "Y."

Deletion of the song will begin.

If you decide to cancel without deleting, press the [◀] (Slow) button to select "N."

Once the song is deleted, you'll be returned to the screen you were in at step 2.

NOTE

Never turn off the power or disconnect the USB flash drive while the screen indicates "Working..."

9. Press the [Key Touch] button or the [Transpose] button to finish the procedure.

Initializing the Memory (Format Media)

Here's how you can completely erase all songs that were saved in the internal memory or the USB flash drive (sold separately).

NOTE

- Once an initialization is performed, all songs that have been saved in the internal memory or the USB flash drive will be erased. The erased data cannot be recovered, so we recommend that you check the contents of memory before you proceed.
- If you're using new USB flash drive (sold separately) with the unit for the first time, you'll need to initialize (format) the USB flash drive before using it. The unit can't use USB flash drive that has not been initialized.

If you want to format USB flash drive, connect the USB flash drive to the USB memory port (p. 10).

- While holding down the [Key Touch] button, press the [Transpose] button.
- **2.** Use the [◀] [▶] (Slow/Fast) buttons to select "Format."



3. Press the [Song] button.

A screen will appear, allowing you to proceed with the format.



If you decide not to proceed with the format, press the [Metronome] button.

- **4.** Use the [-] [+] buttons to select the memory that you want to initialize.
- **5.** Press the [Song] button.

A confirmation message will appear.



6. Press the [▶] (Fast) button to select "Y."

Formatting of the media will begin.

If you decide not to initialize, press the [\blacktriangleleft] (Slow) button. Once the initialization is finished, you'll be returned to the screen you were in at step 2.

7. Press the [Key Touch] button or the [Transpose] button to finish the procedure.

Caution when initializing the memory

- Never turn off the power while "Working..." is shown in the display.
- If the screen indicates "Error," please refer to "Error Messages" (p. 53).
- Initializing the unit's internal memory will not initialize settings other than the contents of the internal memory. If you want to return settings other than the contents of the internal memory to their factory-set condition, execute the Factory Reset operation (p. 39).
- Don't disconnect the USB flash drive until USB flash drive initialization has been completed.

Disabling the Buttons (Panel Lock)

When you activate Panel Lock, all buttons will be disabled.

This prevents the tones or settings from being changed if you inadvertently press a button.

1. Hold down the [AB Repeat] button until the following display appears.

Panel Lock will be activated.

All button operations will be disabled.



2. To cancel Panel Lock, once again hold down the [AB Repeat] button for a while.

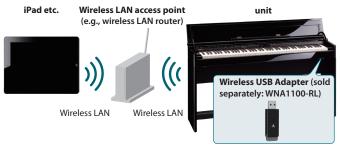
Panel Lock will also be cancelled when you turn off the power.

MEMO

- If you activate Panel Lock while a song is playing, playback will stop.
- You can't activate Panel Lock during recording, while in Function mode (p. 46), or during Tone Demo (p. 14).

About the Wireless LAN Function

By inserting the wireless USB Adapter (WNA1100-RL; sold separately) into the unit's USB MEMORY port, you'll be able to use wireless-compatible applications (such as the "Piano Partner" iPad app).



Items required to use the wireless LAN function

- •Wireless USB Adapter (sold separately: WNA1100-RL)
- •Wireless LAN access point (e.g., wireless LAN router) *1 *2 *3
- •iPad etc.
- *1 The wireless LAN access point you use must support WPS. If your wireless LAN access point does not support WPS, you can connect using the procedure described in "Connecting to a Wireless LAN Access Point That You Select (Select AP)" (p. 44).
- *2 The ability to connect with all kinds of wireless LAN access points is not guaranteed.
- *3 If you're unable to connect to the wireless LAN access point, try connecting using Ad-Hoc mode (p. 45).
- *4 Depending on the wireless LAN system that you're using, you might be unable to connect, or the connection might be dropped.
- *5 Depending on the wireless device used by the wireless LAN function, noise might be heard from the unit. In this case, you may be able to improve the situation by moving the wireless device away from the unit, or by changing the wireless connection mode (WPS / Ad-Hoc mode).
- *6 The sound and functionality might be temporarily affected while a connection is being established; this is not a malfunction.

Basic Connection Method (Connect by WPS)

The first time you connect the unit to a wireless network, you'll need to perform the following procedure (WPS) to join the wireless network.

This procedure is required only the first time. (Once you've joined the network, this procedure will no longer be necessary.)

What is WPS?

This is a standard that makes it easy to make security settings when connecting to a wireless LAN access point. We recommend that you use WPS when connecting to a wireless LAN access point.

- Insert the wireless USB Adapter (WNA1100-RL; sold separately) into the unit's USB MEMORY port.
- 2. While holding down the [Key Touch] button, press the [Transpose] button.
- **3.** Press the [◄] [▶] (Slow/Fast) buttons to select the "Wireless," then press the [Song] button.
- **4.** Press the [**◄**] [**▶**] (Slow/Fast) buttons to select the "Connect," then press the [Song] button.
- Press the [◄] [►] (Slow/Fast) buttons to select the "WPS," then press the [Song] button.

"Proceed?" will appear.



6. Perform the WPS operation on your wireless LAN access point (e.g., press the WPS button on your wireless LAN access point).

For details on WPS operation of your wireless LAN access point, refer to the documentation for your wireless LAN access point.

7. Press the [▶] (Fast) button of the unit.

Once successfully connected, "Success" will appear.

- * If you fail to connect, refer to "Problems when connecting to a wireless LAN" (p. 52).
- 8. Press the [Key Touch] or [Transpose] button to exit Function mode.

NOTE

The device (e.g., iPad) running the app must be connected to the same network.

МЕМО

- The connection data is stored in memory when you perform the WPS procedure; the device will automatically connect to the wireless network the next time.
- All connection data will be erased if you perform a factory reset.

This completes the procedure necessary for joining the wireless network. You can use the wireless connection from an iPad app such as Piano Partner.

Wireless LAN Function Settings

You can view or edit the wireless settings.

Basic Operation

- While holding down the [Key Touch] button, press the [Transpose] button.
- **2.** Press the [◀] [▶] (Slow/Fast) buttons to select the "Wireless," then press the [Song] button.
- **3.** Press the [◀] [▶] (Slow/Fast) buttons to select menu, then press the [Song] button.

Menu	Explanation	
Status	This shows the wireless LAN status.	
Connect Connect to a wireless LAN access point.		
Option	Make settings for Wireless ID or Ad-Hoc mode (p. 45).	

In the explanations in this Chapter, procedures will be indicated using arrows, like this: "Wireless" → "Status."

Status Indication

This shows the wireless LAN status.

1. Select "Wireless" → "Status."

The status screen will appear.



Display		Explanation	
_00	Signal level: Strong	Currently connected to the wireless LAN access point Three bars are used to indicate the signal level (the	
_00	Signal level: Middle	strength of the connected wireless LAN access point' radio signal).	
	Signal level: Weak	The identifier (name) of the connected wireless LAN access point is shown.	
Not Con		The wireless USB adapter is inserted, but not connected to a wireless LAN access point.	
NotAvai		The wireless USB adapter is not inserted.	
		Ad-Hoc mode (p. 45).	
DP90S/90		The Ad-Hoc SSID is shown. Press the [▶] (Fast) button to display the Ad-Hoc key.	
SSID		For details, refer to "Connecting in Ad-Hoc Mode" (p. 45).	

2. Press the [▶] (Fast) button to display the IP address.

Connecting to a Wireless LAN Access Point That You Select (Select AP)

This method lets you connect by choosing a wireless LAN access point from the list that is displayed.

- * Wireless standards 802.11g/n (2.4 GHz) and authentication methods WPA/WPA2 are supported.
- **1.** Select "Wireless" → "Connect" → "Select AP," then press the [Song] button.

The Select Access Point screen will appear.



An "*" symbol is shown for the currently-connected wireless LAN access point.

- 2. Press the [-] [+] button to choose the wireless LAN access point to which you want to connect, and press the [Song] button
 - You will be connected to the selected wireless LAN access point.
 - If you're using this wireless LAN access point for the first time, you'll proceed to the authorization (PASS) screen.
 - If this is a wireless LAN access point to which you have connected in the past, just press the [Song] button and you'll be connected. Once successfully connected, "Success" will appear.

Authorization screen (PASS)

3. Enter the security code (passphrase) of your wireless LAN access point, and press the [Song] button.

How to enter characters

Use the $[\] [\]$ (Slow/Fast) buttons to select the position at which you want to specify a character. Use the $[\]$ [+] buttons to change the character.

* You cannot enter a space at the end of the passphrase.



Once successfully connected, "Success" will appear.

- * If you fail to connect, refer to "Problems when connecting to a wireless LAN" (p. 52).
- 4. Press the [Key Touch] or [Transpose] button to exit Function mode.

Other Settings (Option)

Make settings for Wireless ID or Ad-Hoc mode.

- **1.** Select "Wireless" → "Option."
- 2. Press the [◄] [▶] (Slow/Fast) buttons to select the parameter that you want to change.
- 3. Press the [-] [+] button to edit the value of the setting.



Parameter	Explanation		
ID (Wireless ID)	Specifies the final digits of the unit's device name and Ad- Hoc SSID (DP90S/90) that will be shown as the instrument in the wirelessly connected app.		
	Normally, you should specify "0," but if you have more than one of the same instrument, you can set the Wireless ID in the range of 1–99 to change the device name and Ad-Hoc SSID for each instrument, as follows.		
	If Wireless ID=0, "DP90S/90" (default value)		
	If Wireless ID=1, "DP90S/90_1"		
	:		
	If Wireless ID=99, "DP90S/90_99"		
	Specifies the channel (1–11) for Ad-Hoc mode.		
Ad-Hoc Ch.	Normally, you won't need to change the channel. Try changing the channel only if you have problems connecting.		

Connecting in Ad-Hoc Mode

Here's how to connect in Ad-Hoc mode.

What is Ad-Hoc mode?

Ad-Hoc mode lets you connect the unit directly to an iPad or other wireless device without using a wireless LAN access point. This is a convenient way to use the unit with an iPad or other wireless device if you're in a location where the wireless LAN access point you normally use is unavailable, such as when you're away from home.







The iPad or other wireless device connected in Ad-Hoc mode will be unable to communicate with the Internet or with another wireless device. However, an iPad or other wireless device that has cellular capability will be able to connect to the Internet via the cellular connection.

Please be aware that if you use a cellular connection for Internet connectivity, you may incur costs depending on your rate plan.

- **1.** Select "Wireless" → "Option" → "Ad-Hoc," then press the [Song] button.
- 2. Press the [▶] (Fast) button to turn the Ad-Hoc Mode "On."
 - * To turn off Ad-Hoc Mode, press the [◀] (Slow) button.
- **3.** Once in Ad-Hoc Mode, the Ad-Hoc SSID (DP90S/90) will be displayed. Press the [▶] (Fast) button to display the Ad-Hoc key (a five-character text string). Write down this number.

The Ad-Hoc key is the five-digit number that's displayed here. Each piano has its own unique number.





- The Ad-Hoc SSID (DP90S/90) will be the value that you specified in the WIRELESS OPTIONS screen "Wireless ID" setting.
- The Ad-Hoc SSID and the Ad-Hoc key can also be verified in the status screen.
- 4. On the iPad or other wireless device that you want to connect, select the Ad-Hoc SSID shown in the above screen to make the connection. (For example, on an iPad, choose [Settings] → [Wi-Fi] → [Choose a Network] to select the above Ad-Hoc SSID (DP90S/90). A password entry screen will appear; enter the above Ad-Hoc key.) For details on how to connect to a wireless LAN from an iPad or other device, refer to the owner's manual of that device.
- 5. Press the [Key Touch] or [Transpose] button to exit Function mode.
- 6. When you have finished the Ad-Hoc mode connection, restore the iPad settings in [Settings] → [Wi-Fi] → [Choose a Network] to their previous state.

Checking the MAC Address

The MAC address indicated on the bottom of the wireless USB adapter (WNA1100-RL; sold separately).





Various Settings (Function Mode)

The same procedure is used for all settings in Function mode.

1. While holding down the [Key Touch] button, press the [Transpose] button.

The [Key Touch] button and [Transpose] button will light; the unit will be in Function mode.

- **2.** Press the [◀] [▶] (Slow/Fast) buttons to select the function setting that you want to change.
- **3.** Press the [-] [+] button to edit the value of the setting.
- **4.** Press the [Key Touch] button or the [Transpose] button to exit Function mode.

Indication	Value	Explanati	ion			
	Applying a Headphones 3D Ambience Effect to the Piano Sound (Headphones 3D Ambience)					
Phones3D (*1)	When using piano itself.	When using headphones, you can apply a Headphones 3D Ambience effect which produces the sensation that the sound is emanating from the piano itself.				
	ON	Headpho	nes 3D Ambience is on.			
	OFF	Headpho	nes 3D Ambience is off.			
Dual Bal (*1)		Adjusting the Dual Play Volume Balance (Dual Balance) When using Dual Play, you can adjust the volume balance between tone 1 and tone 2.				
			ame volume)–1-9 (tone 2 is louder)			
	Matchi	ing the Pit	tch with Other Instruments (Master Tuning)			
Tuning (*1)	The standar	d pitch generally with one or more	h other instruments and in other such instances, you can match the standard pitch to another instrument. I refers to the pitch of the note that's played when you finger the middle A key (A4). For a cleaner ensemble sound while Be other instruments, ensure that each instrument's standard pitch is in tune with that of the other instruments. This It to a standard pitch is called "master tuning."			
	415.3-440.0	0-466.2 Hz				
	Changing the Tuning Method (Temperament) You can play classical styles such as Baroque using historic temperaments (tuning methods). Most modern songs are composed for and played in equal temperament, the most common tuning in use today. But at one time, there were a wide variety of other tuning systems in existence. By playing in the temperament that was in use when a composition was created, you can experience the sonorities of chords originally intended for that song.					
	Screen	Explanation	Qualities			
	EQU	Equal	In this tuning, each octave is divided into twelve equal steps. Every interval produces about the same amount of slight dissonance.			
Temprmnt (*1)	MAJ	Just Major	This tuning eliminates ambiguities in the fifths and thirds. It is unsuited to playing melodies and cannot be transposed, but is capable of beautiful sonorities.			
	MIN	Just Minor	The Just tunings differ from major and minor keys. You can get the same effect with the minor scale as with the major scale.			
	PYTH	Pythagorean	This tuning, devised by the philosopher Pythagoras, eliminates dissonance in fourths and fifths. Dissonance is produced by third-interval chords, but melodies are euphonious.			
	KIRN	Kirnberger	This is an improvement of the Meantone and Just tunings that provides a high degree of freedom of modulation. Performances are possible in all keys (III).			
	MEAN	Meantone	This scale makes some compromises in just intonation, enabling transposition to other keys.			
	WERC	Werckmeister	This temperament combines the Meantone and Pythagorean tunings. Performances are possible in all keys (first technique, III).			
	ARB	Arabic	This tuning is suitable for the music of Arabia.			
Tmpr Key (*1)	When playing the note that If you choose C, C [‡] , D, E [♭] , E	Specifying a Song's Tonic (Temperament Key) When playing with tuning other than equal temperament, you need to specify the temperament key for tuning the song to be performed (that is, the note that corresponds to C for a major key or to A for a minor key). If you choose an equal temperament, there's no need to select a temperament key. C, C [‡] , D, E ^¹ , E, F, F [‡] , G, A ^¹ , A, B ^¹ , B				
Dmpr Res (*1)	* In the display, a quotation mark (") signifies a sharp (#). Producing Sympathetic Resonance When You Press the Damper Pedal (Damper Resonance) This adjusts the damper resonance of the acoustic piano sound (the sympathetic vibration produced in strings other than those actually played when you press the damper pedal). Higher settings will make the sympathetic vibration louder. OFF, 1–10					

Indication	Value	Explanation		
	Producino	the Resonance of the Strings When the Keys Are Played (String Resonance)		
Chur Dan (#1)		tring resonance of the acoustic piano sound (the sympathetic vibrations of strings for previously played notes that occur when you		
Strg Res (*1)	play another note).			
	OFF, 1–10	rill make the sympathetic vibration louder.		
		ounda Mhan tha Varra Ana Dalacaad (Varra Off Daganana)		
		ounds When the Keys Are Released (Key Off Resonance)		
KOff Res (*1)		oathetic vibrations such as an acoustic piano's key-off sound (the subtle sound that occurs when you release a note). vill make the sympathetic vibration louder.		
	OFF, 1–10	miniake the sympathetic vibration louder.		
	Adjusting	the Metallic Sound That Occurs When You Play a Note (Dynamic Harmonic)		
DunHarma (*1)				
DynHarmo (*1)	-	netallic resonance that is produced when you play strongly on an acoustic piano. rill produce a louder metallic sound.		
	OFF, 1–10			
	Adjusting	the Sympathetic Resonance of the Grand Piano Body (Cabinet Resonance)		
Cabinet (*1)		resonance of the grand piano itself.		
	OFF, 1–10	l produce a larger body resonance.		
	Adjusting	the Clarity of Individual Notes in a Chord (SoundBoard Behavior)		
SoundBrd (*1)	When you play a chord, this setting improves the clarity of the individual notes in the chord, creating a more beautiful resonance. Higher settings produce a clearer resonance.			
	OFF, 1–10	Notate a clearer resonance.		
	Using a Piano's Unique Tuning (Stretch Tuning)			
Stretch (*1)	This lets you specify the amount of "stretch tuning," a tuning method specifically for pianos, in which the high range is tuned slightly sharper, and			
	the low range is tuned slightly flatter. If you select "ON," a standard tuning curve created for the unit will be used.			
	OFF, 1, 2, USER (USER: -50-0-+50)			
	Adjusting the volume of each Individual Key (Note Volume)			
Note Vol (*1)	This lets you adjust the volume of each individual key. Higher settings will make the volume louder. If you select "USER," and then press the [Song] button, you'll be able to edit the Note Volume settings. Press the key whose volume you want to adjust, and use the [-] [+] buttons to adjust its volume.			
	OFF, USER (USER: -50-0)			
	Adjusting the tonal character of Each Individual Key (Note Character)			
NoteChar (*1)	This lets you adjust the tonal character of each individual key. Higher settings will make the tone harder, and lower settings will make the tone softer. If you select "USER," and then press the [Song] button, you'll be able to adjust the Note Character settings. Press the key whose tone you want to adjust, and use the [-] [+] buttons to adjust its tone.			
	OFF, USER (USER: -5-0-+5)			
	Specifying	g What the Transpose will Affect (Transpose Mode)		
Trnspose (*1)	This setting specifies what the transpose will affect. You can use the transpose to change the pitch of both the song and the keyboard, only the pitch of the song, or only the pitch of the keyboard.			
	KBD	The sound of the keyboard		
	SONG	The song being played back		
	ВОТН	The sound of the keyboard and the song being played back		
	Changing	the Pitch of the Tone in Octave Steps (Octave Shift)		
Oct Shft	You can change the pitch of the Tone 2 in Dual Play (p. 15) and Lower tone in Split Play (p. 16) an octave at a time.			
	Altering the pitch in one-octave units in this way is called "Octave Shift." For example, you can raise the pitch of the Lower Tone to the same pitch of the Upper Tone in Split Play.			
	-2-0-+2 (octave)			



Indication	Value	Explanation			
	Selectin	Selecting the Format for Recording (Recording Mode)			
		se whether to record as SMF or as audio.			
Rec Mode	MEMO				
		o switch the recording mode by holding down the [•] (Rec) button and using the [–] [+] buttons.			
	SMF	SMF parts will be recorded separately. This allows you to re-record just a single part, or to overdub different parts.			
	Audio	The recording will be made as audio data. The recorded song can be used in your computer.			
	Changir	ng How the Pedal Effects Are Applied (Damper Pedal Part)			
		ess the damper pedal during Dual play or Split play, the pedal effect is normally applied to both tones, but you can also select the tone			
DPdl Prt (*1)		effect is to be applied.			
	R+L	All enabled			
	R	Applied only to the Tone 1 (in dual mode)/Right-hand Tone (in split mode)			
	L	Applied only to the Tone 2 (in dual mode)/Left-hand Tone (in split mode)			
	Changir	ng How the Pedals Work (Center Pedal)			
	When you tur	n on the power, the center pedal functions as the sostenuto pedal (p. 10).			
	You can chang	ge the function of the pedal to a variety of other operations.			
CPdl Fnc	SOST	Sets function to sostenuto pedal.			
Crairic	PLAY	The pedal will have the same function as the [▶/ ■] (Play/Stop) button.			
	LAYR	Pressing the pedal will layer on Tone 2, used for Dual play.			
		* The Layer function can be applied only when using Dual play.			
	ост	Pressing the pedal will layer on a sound one octave higher.			
		* The Octave function cannot be applied while using Twin Piano, Dual play, or Split play.			
	Prevent	ing Doubled Notes When Connected to a Sequencer (Local Control)			
	When you hav	re a MIDI sequencer connected via USB, set this parameter to Local Off.			
		quencers have their Thru function turned on, notes you play on the			
	1 '	be sounded in duplicate, or get dropped. To prevent this, you can be sounded in duplicate, or get dropped. To prevent this, you can be sound Generator will be			
	disconnected				
LocalCtl		USB MIDI Out			
	OFF	Local Control is off.			
		The keyboard and composer are disconnected from the internal sound generator. Playing the keyboard will not produce sound.			
	ON	Local Control is on.			
The keyboard and composer are connected to the internal		The keyboard and composer are connected to the internal sound generator.			
	MIDI Tra	ansmit Channel Settings (MIDI Transmit Channel)			
	This setting sp	pecifies the MIDI channel on which the unit will transmit.			
MIDI Ch (*1)		MIDI uses sixteen "MIDI channels," which are numbered 1 through 16. By connecting MIDI devices (USB MIDI) and specifying the appropriate MIDI channel for each device, you can play or select sounds on those devices.			
	The unit will receive all sixteen channels (1–16).				
	OFF, 1–16				
	Renami	ng a Song (Save Song)			
SaveSong					
	Here's how to	rename a song you've saved (p. 38).			
	Copying	Copying a Saved Song (Copy Song)			
CopySong		A song you've saved to the internal memory can be copied to the USB flash drive. Alternatively, a song saved to the USB flash drive can be copied to			
	the internal memory. (p. 40)				
Del Song	Deletin	g a Saved Song (Delete Song)			
		e a saved song from the internal memory or the USB flash drive. (p. 40)			
	Initialia	ing the Memory (Format Media)			
Format		ing the Memory (Format Media)			
	You can delete	e all songs from the internal memory or a separately sold USB flash drive. (p. 41)			

Indication	Value	Explanation			
	Changii	ng the USB Driver Settings (USB Driver)			
		Normally, you don't need to install a driver in order to connect the unit to your computer. However, if some problem occurs, or if the performance is poor, using the Roland original driver may solve the problem.			
	In this case, se	et the unit's "USB Driver" setting to "ORG," and then install the driver in your computer.			
	After changin	ng this setting, you need to turn off the unit, then turn it back on again.			
USB Drv	MEMO				
		g is automatically saved in the unit.			
	Roland websi				
	http://www.i				
	GEN	Choose this if you want to use the generic USB driver that was included with your computer. Normally, you should use this mode.			
	ORG	Choose this if you want to use a USB driver downloaded from the Roland website.			
	Changii	ng the USB flash drive Setting (USB Memory Mode)			
		In some cases, when USB flash drive is connected to the USB memory port, it may take longer for data to be loaded, or data may fail to be loaded successfully. If this occurs, you may be able to solve the problem by changing the USB flash drive setting.			
USB Mode	When the unit left the factory, this was set to "2" Normally, there is no need to make this setting.				
	After changin	After changing this setting, you need to turn off the unit, then turn it back on again.			
	MEMO	MEMO			
	This setting is automatically saved in the unit.				
	1,2				
	Control	ling Video Equipment (Visual Control Mode)			
VC Mode		l is a function that lets you control images along with your performance. If you've set Visual Control mode to MVC or VLNK, playing the unit will control the images produced by the Visual Control device connected to unit using a USB cable.			
ve mode	OFF	Visual Control is off.			
	MVC	MIDI Visual Control mode is selected.			
	VLNK	V-LINK mode is selected.			
	Specify	ing the Visual Control Channel			
VC Ch (*1)	Here's how to	specify the channel on which messages used to control video will be sent.			
	1–16	Specifies the MIDI channel used to transmit MIDI messages to the Visual Control device.			
	<u> </u>				

What is MIDI Visual Control?

MIDI Visual Control is an internationally-used recommended practice that was added to the MIDI specification so that visual expression could be linked with musical performance. Video equipment that is compatible with MIDI Visual Control can be connected to electronic musical instruments via MIDI in order to control video equipment in tandem with a performance.



What is V-LINK?

V-LINK is Roland's proprietary specification that allows visual expression to be linked with musical performance. Video equipment that is compatible with V-LINK can be connected to electronic musical instruments, making it easy to enjoy a variety of visual effects that are linked with the performance.



Connection examples

Connect a USB cable from this unit's USB port (p. 10) to the USB port of your Visual Control compatible device.

* You'll need a commercially available USB cable in order to connect this unit to a device that supports Visual Control.

Visual control function chart

Playing the lowest 12 keys of this unit (A0–G#1) will transmit the following MIDI messages.

Visual Control function	Transmitted MIDI message	Unit's operation
Constant inner and	CC 0 (Bank Select): 0–4	Play black keys
Switch images	Program Change: 1–7	Play white keys



Various Settings (Function Mode)

Indication	Value	Explanation
Wireless	Wireless	s LAN Function Settings
	You can view o	or edit the wireless settings (p. 44).
	Specifyi	ng the Maximum Volume (Volume Limit)
VolLimit (*1)	You can specif	y the maximum volume setting. This will prevent undesirably high volumes even if the [Volume] slider are operated unintentionally.
	20, 40, 60 ,80,	100
	Making	the Power Automatically Turn Off After a Time (Auto Off)
	With the facto	ry settings, the unit's power will automatically be switched off 30 minutes after you stop playing or operating the unit.
Auto Off	If you don't wa	ant the power to turn off automatically, change the "Auto Off" setting to "OFF" as follows. (p. 39)
	MEMO	
	This setting	is automatically saved in the unit.
Backup	Storing	Your Settings (Memory Backup)
Баскир		ings will return to their default settings when you turn off the power, but you can store these settings so that they will retain the nade even after the power is turned off, then on again. (p. 39)
FctReset	Restorir	ng the Factory Settings (Factory Reset)
	When you exe	cute the "Factory Reset" function, the settings you've edited in Function mode will be restored to their factory-set state. (p. 39)



Cause/Action Symptom Page The unit uses a hammer action keyboard in order to simulate an acoustic piano's playing touch as realistically as possible. For Even though you're using headthis reason, you'll hear the hammers thump when you play the keyboard, just as you would when playing an acoustic piano. phones and the sound is muted, Since this unit allows you to adjust its volume, you might notice the sound of the hammers in certain situations, but this does a thumping sound is heard when not indicate a malfunction. If vibration transmitted to the floor or walls is a concern, you may be able to minimize the vibration you play the keyboard $by\ moving\ the\ piano\ away\ from\ the\ wall, or\ by\ laying\ down\ a\ commercially\ available\ anti-vibration\ mat\ designed\ for\ use\ with$ When 30 minutes have elapsed since you last played or operated this unit, the power will turn off automatically. (This is the Power turns off on its own factory setting) p. 39 If you don't need the power to turn off automatically, turn the "Auto Off" setting "OFF." Is the AC adaptor connected correctly? p. 63 Could the power have been turned off by the auto-off function? Power does not turn on If you want to turn on the power after the auto-off function has turned it off, operate the [Power] switch to turn the power on p. 39 Since the unit uses a liquid-crystal display, you may find that it is unable to display letters or other things in environments where Nothing appears in the display temperatures go below 0 degrees Celsius (32 degrees Fahrenheit). p. 42 Can't perform operations Could Panel Lock be activated? Disengage the Panel Lock setting. Is the pedal connected correctly? p. 63 Plug the cable firmly into the pedal connector. If you disconnect the pedal cord from the unit while the power is on, the pedal effect may remain "stuck" in the On condition. You must power-off the unit before connecting or disconnecting the pedal cord. Could you have changed how the pedal effect is applied? If the damper pedal part is set to "R," the pedal will apply only to the right tone; if it is set to "L," the pedal will apply only to the left p. 48 Pedal does not work, or is "stuck" Could Twin Piano be turned on? If Twin Piano is on, the right pedal will affect only the right-hand keyboard zone and the left pedal will affect only the left-hand p. 20 Could you have changed the function of the pedal? p. 48 If you've reassigned the function of the center pedal, this pedal will not operate as the sostenuto pedal. Are you using (optional) Roland USB flash drive? Unable to read from/write to USB Reliable performance cannot be guaranteed if you use non-Roland USB flash drive products. flash drive If you are unable to read or write USB flash drive successfully, change the USB memory mode. p. 49 "Buzz" is heard from external Are the external devices connected to more than one AC power outlet? If you connect external devices, be sure to connect them to the same AC outlet. The volume level of the instru-Raise the volume of the connected device. ment connected to Input jack is Could you be using a connection cable that contains a resistor? too low. Use a connection cable that does not contain a resistor. No sound Could the unit's volume or the volume of the connected equipment be turned down? p. 6, p. 13 Could headphones be connected? Could there be a plug inserted in a headphone jack? p. 11 No sound The speakers will not produce sound if headphones or plug are connected to the headphone jacks. Has Local Control been set to "OFF"? When Local Control is set to "OFF," no sound is produced by playing the keyboard. Set Local Control to "ON." p. 48 No sound when you play back When Local Control is set to "OFF," no sound is produced by playing the song. Set Local Control to "ON." a song p. 25 Could the Song Balance be set to "0"? Could the Visual Control mode be set to "MVC" or "VLNK"? No sound from the left most If the Visual Control mode is set to "MVC" or "VLNK," the lowest 12 keys of the keyboard (A0–G#1) are used to control images; they p. 49 notes of the keyboard will not produce sound. Notes don't sound right p. 21 Could you have made Transpose settings? p. 35 Is the Master Tune setting appropriate? p. 46 Pitch of the keyboard or song is Is the setting for the Temperament correct? p. 46 If stretch tuning is "ON," the piano will be tuned in a unique way; notes in the piano's upper range will be tuned slightly sharper, while notes in the lower range will be tuned slightly lower. For this reason, certain pitches may seem to be off, but this is actually p. 47 the way that an acoustic piano should sound. The maximum simultaneous polyphony is 128 voices. If you're using Dual Play, or playing along with a song, or making heavy Not all the notes you play are use of the damper pedal, the number of notes being requested by the performance data may exceed the maximum available sounded polyphony, causing notes to drop out. Is the unit in Dual play? p. 15 Sounds are heard twice (doubled) When the unit is connected to an external sequencer, set the Local Control to off. Alternatively, the sequencer could be set so its when the keyboard is played p. 48 Soft Thru feature is Off. When you are using Dual play or Split play, and different effects are specified for the two selected tones, the effect will not be Effect does not apply applied to Tone 2 (when using Dual play) or the left-hand tone (when using Split play). The unit's piano sound faithfully simulates the depth and resonance of an acoustic piano, and this may give the impression of Reverberation remains even if You p. 47 reverberation even if you've defeated the Ambience effect. defeat the Ambience effect Also, you may be able to eliminate some reverberation by reducing the value set for "Cabinet Resonance." On an acoustic piano, the approximately one and a half octaves of notes at the top of the keyboard will continue sounding The sound of the higher notes regardless of the damper pedal. These notes also have a somewhat different tonal character. The unit faithfully simulate this suddenly changes from a certain characteristic of acoustic pianos. On the unit, the range that is unaffected by the damper pedal will change according to the key key transpose setting

Troubleshooting

Symptom	Cause/Action	Page
Illiah airah adain da	If you hear this in headphones: Piano sounds that have a brilliant and crisp character contain substantial high-frequency components that may sound as though a metallic ringing has been added. This is because the character of an actual piano is being faithfully reproduced, and is not a malfunction. This sound can be adjusted by modifying the following settings.	
High-pitched ringing is heard	 String Resonance (p. 47) Ambience (p. 18) If you don't hear this in headphones: It is likely that there is some other reason (such as resonances within the unit). Please contact your dealer or a nearby Roland 	-
	service center. If you set the volume to the maximum setting, the sound may be distorted depending on how you perform.	_
Low notes sound wrong, or are buzzy	If this occurs, turn down the volume. If you don't hear this in headphones: Performing at high volumes may cause the speakers or objects near the unit to resonate. Fluorescent lights or glass doors may also resonate sympathetically. In particular, this is more likely to occur for lower notes and higher volumes. You can take the following measures to minimize resonances.	
ouzzy	 Locate the speakers 10–15 cm (4–6 inch) away from walls or other surfaces. Keep the volume down. Move away from the objects that are resonating. If you hear this in headphones: It is likely that there is some other reason. Please contact your dealer or a nearby Roland service center. 	-
Song does not play correctly	, , , , , , , , , , , , , , , , , , ,	
Only the sound of a particular instrument in a song does not play	Could a part be muted? If the button indicator is out, the music on that part is not heard. Press the part button so the indicator is illuminated.	p. 26
Sound is heard from a muted part	Could the part mute volume be set to other than "0"? If you set this to "0," the sound of a muted part will be completely inaudible.	p. 27
Song volume is low / Volume differs between recording and playback	Could the Song Balance volume be lowered?	p. 25
Can't play back a song saved in USB flash drive	Could the Audio files of the format be played? Audio files of the following format can be played back. • File extension ".WAV" • 16-bit linear • "44.1 kHz" sampling rate	p. 24
	Is the filename extension "MID"? Files with other filename extensions cannot be handled as song data.	-
Song tempo becomes unstable When playing a song from USB flash drive, the tempo may become unstable if there is an excessive amount of performance		-
Song name in USB flash drive is not shown	The song name will not be shown if the song information in the file is empty or consists only of spaces. Is the filename extension "MID"? Files with other filename extensions cannot be handled as song data.	
	Song names can consist only of English letters, numerals, certain symbols, and single-byte characters from the Japanese syllabary; the unit is unable to correctly display the name if other characters are used.	-
Can't record / play back		
Can't record SMF	Has one of the part buttons for recording been selected?	p. 29
Can't record audio The recorded performance disappeared	Is a USB flash drive connected to the USB memory port? Your recorded performance will disappear if you switch off the unit's power or select a song. There is no way to recover the lost performance. Before you turn off the power, save your recorded performance in the internal	-
	memory or the USB flash drive.	
Problems when connecting to a wi		
Can't connect to a wireless LAN	 Make sure that your wireless LAN access point supports WPS. If your wireless LAN access point does not support WPS, you can connect using the procedure described in "Connecting to a Wireless LAN Access Point That You Select (Select AP)" (p. 44). The 802.11a/b wireless standard is not supported. Please use the 802.11g/n (2.4 GHz) wireless standard. The WEP authentication method is not supported. Please use the WPA or WPA2 authentication method. Make sure that DHCP is enabled for your wireless LAN access point. 	
access point	 If you don't get connected to the previously-connected wireless LAN access point when you turn on the unit, check and make sure the setting described in "Connecting in Ad-Hoc Mode" (p. 45) is OFF. The connection might not occur successfully due to the state of the radio signal. If so, use the procedure described in "Connecting to a Wireless LAN Access Point That You Select (Select AP)" (p. 44), and select your wireless LAN access point and reconnect. There is a limit to the connection data that can be remembered. Making a new connection may cause older connection data to be deleted. All connection data will be deleted if you execute a factory reset. If the connection data has been deleted, please re-connect to the wireless LAN access point. 	p.43-p.4
The display indicates "Error 46," and can't connect to the wireless LAN access point	This Access Point is not supported. Please use the WPA or WPA2 authentication method.	
Communication is unstable	Communication may be unstable depending on the usage of the radio frequency spectrum. If communication is unstable, the response may be sluggish, or if using audio communication, there may be dropouts in the audio.	
Communication is unstable	The following actions may improve the situation. Move the wireless LAN access point and the unit closer to each other. Change the channel setting of the wireless LAN access point.	

Symptom	Cause/Action	Page
	• Is the unit powered up?	
The unit is not found in the	Is the wireless USB adapter (WNA1100-RL) inserted to the unit?	
instrument connections of	• Is the unit connected to the wireless LAN?	
the app (such as the iPad app Piano Partner)	Are the unit and the iPad connected to the same network (the same wireless LAN access point)?	
Plano Partner)	Is the wireless LAN access point set to allow communication between wireless LAN devices? For details on settings, refer to the owner's manual of your wireless LAN access point.	p.43-p.45
	• Is the wireless LAN access point connected to the Internet?	
Your iPad won't connect to the Internet	Could you be connected in Ad-Hoc mode? The iPad or other wireless device connected in Ad-Hoc mode will be unable to communicate with the Internet or with another wireless device. However, an iPad or other wireless device that has cellular capability will be able to connect to the Internet via the cellular connection. Please be aware that if you use a cellular connection for Internet connectivity, you may incur costs depending on your rate plan.	

Limitations regarding audio files

- Ambience will not be applied to audio files (p. 18).
- The Part Mute function cannot be used when playing audio files (p. 26).
- Audio data cannot be saved in the unit's internal memory. In order to record audio, you must connect a USB flash drive (separately sold) (p. 29, p. 33, p. 34).
- You can't rename an audio file (p. 38).
- Audio files cannot be copied (p. 40).



Indication	Meaning		
Error 1	You can only read the music file. It can not be saved.		
Error 2	An error occurred during writing. The external media may be corrupted. Insert other external media and try again. Alternatively, you can initialize the external media. The external media's protect tab may be in the "Protect" (writing prohibited) position may not yet be initialized.		
Error 10	No external media is inserted. Insert the external media and try again.		
Error 11	There is not sufficient free memory in the save destination.		
Error I I	Either insert other external media or delete unneeded files and try again.		
Error 14	An error occurred during reading. The external media may be corrupted.		
Error 14	Insert other external media and try again. Alternatively, you can initialize the external media.		
Error 15	The file is unreadable. The data format is not compatible with the unit.		
Error 16	Data was not called up in time for playback of the song. After waiting several seconds, you may be able to play back the song by pressing the [►/ ■] (Play/Stop) button again.		
F10	This audio format is not supported.		
Error 18	Please use 44.1 kHz 16-bit linear WAV format audio files.		
Error 30	The internal memory capacity of the unit is full.		
F	The unit cannot deal with the excessive MIDI data sent from the USB MIDI.		
Error 40	Reduce the amount of MIDI data sent to the unit.		
Error 43	A MIDI transmission error has occurred. Check the connected USB MIDI device.		
Error 46	This Access Point is not supported. Please use the WPA or WPA2 authentication method (p. 43–p. 45).		
Error 51	There may be a problem with the system. Repeat the procedure from the beginning. If it is not solved after you have tried several times, contact the Roland service center.		
Error 65	The USB memory port was subjected to excessive current. Make sure that there is no problem with the external media, then turn the power off, then on again		

^{*} External Media: USB flash drive



Piano-Grand

No.	Tone Name	Explanation	
1	Concert	The sound of a splendid concert grand piano. This piano sound has our highest recommendation, and can be used for any style of music.	
2	Ballade	A mellow grand piano sound, recommended for quiet songs.	
3	Bright	A brilliant grand piano sound, recommended when you want the piano to stand out in an ensemble.	
4	Magical	A charming sound that layers synth bells with Concert.	
5	Pno+Str	Strings layered with Concert.	
6	Pno+Pad	A pad layered with Concert.	
7	Pno+Cho	A choir layered with Concert.	
8	Pure Pno	A grand piano sound notable for its clarity. When using headphones, this will sound the same as the Concert (Concert Piano).	
9	FortePno	An early type of piano with a distinctive sound that's somewhat different than today's pianos.	
10	MlwForte	A mellow FortePno (Forte Piano) sound.	
11	BrtForte	A brilliant FortePno (Forte Piano) sound.	
12	Dolcechd	A dream-like sound that can sound like a piano or a harpsichord.	
13	Harpsi	A type of keyboard instrument widely used in Baroque music, producing a delicate sound.	
14	Hpsd 8+4	The sound of a harpsichord layered with sound an higher octave.	

Piano-Upright

No.	Tone Name	Explanation	
1	Upright	he sound of an upright piano. The sound will feel closer to you.	
2	MellowUp	mellow upright piano sound.	
3	BrightUp	A brilliant upright piano sound.	
4	Rock Pno	A robust piano sound, recommended for boogie-woogie playing.	
5	Ragtime	A honky-tonk piano sound, recommended for ragtime playing.	

E. Piano

No.	Tone Name
1	Trem EP
2	Pop EP
3	Vint EP
4	FM EP
5	EP Belle
6	'60s EP
7	Clav.
8	Stg Phsr
9	'70s EP
10	E.Grand

Strings

No.	Tone Name	
1	SymphStr	
2	Epic Str	
3	Rich Str	
4	Orch Str	
5	Orchstra	
6	Cham Win Harp Violin	
7		
8		
9	Velo Str	
10	Flute	
11	Cello	
12	Orch Brs	
13	Pizz Str	
14	Decy Str *	

^{*} Tones indicated by "*" are suitable for playing layered with a piano tone.

Other

No.	Tone Name
1	Vib
2	Celesta
3	Jz Scat
4	SymphCho
5	Pipe Org
6	Nasn Flt
7	Jazz Org
8	Balad Or
9	Soft Pad
10	Harpvox
11	Nylon Gt
12	Steel Gt
13	Marimba
14	MIt Isle
15	Mrng Lit
16	Balad Bl
17	Acordion
18	Church 1
19	Church 2
20	Aerl Cho
21	Angl Cho
22	Beau Vox
23	Fem Aahs
24	Male Aah
25	Decy Cho *

No.	Tone Name
26	Thum Vo
27	Gspl Spn
28	Full Stp
29	Melw Bar
30	Lite Org
31	Lowr Org
32	'60s Org
33	Glas Pad
34	Lunr Str
35	Dcy C.Pd *
36	Jazz Gt
37	Ac. Bass
38	Bass+Cym
39	Fingr Bs
40	Brs Sect
41	Alto Sax
42	Ten Sax

^{*} Tones numbered 43 and higher are accompaniment-use GM2 tones.

^{*} In the tone group "Other" when you hold down the [-] [+] buttons to switch tone in succession, the tones will stop changing at number 43 and number

^{*} To select the next sound, release the [–] [+] buttons, then press it again.



¶ Internal Song List

No.	Song Title	Composer
MASTER		
	The Nutcracker "Danse des	Detail id The ileast
a.001	Mirlitons"	Peter Ilyich Tchaikovsky
a.002	The Marriage of Figaro "Overture"	Wolfgang Amadeus Mozart
a.003	Barcarolle	Fryderyk Franciszek Chopin
a.004	Zhavoronok	Mikhail Ivanovich Glinka, Arranged by Mily Alexeyevich Balakirev
a.005	Floral Pursuits	Léo Delibes, Arranged by John Maul
a.006	Sonate für Klavier Nr.23 1	Ludwig van Beethoven
a.007	Sonate für Klavier Nr.23 2	Ludwig van Beethoven
a.008	Sonate für Klavier Nr.23 3	Ludwig van Beethoven
a.009	Valse, op.34-1	Fryderyk Franciszek Chopin
a.010	Polonaise op.53	Fryderyk Franciszek Chopin
a.011	Nocturne No.20	Fryderyk Franciszek Chopin
a.012	Die Forelle	Franz Peter Schubert, Arranged by Franz Liszt
a.013	Reflets dans l'Eau	Claude Achille Debussy
a.014	La Fille aux Cheveux de Lin	Claude Achille Debussy
a.015	La Campanella	Franz Liszt
a.016	Scherzo No.2	Fryderyk Franciszek Chopin
a.017	Étude, op.10-12	Fryderyk Franciszek Chopin
a.018	Sonate No.15	Wolfgang Amadeus Mozart
a.019	Liebesträume 3	Franz Liszt
a.020	Étude, op.10-3	Fryderyk Franciszek Chopin
a.021	Je te veux	Erik Satie
a.022	Valse, op.64-1	Fryderyk Franciszek Chopin
a.023	Golliwog's Cakewalk	Claude Achille Debussy
a.024	Fantaisie-Impromptu	Fryderyk Franciszek Chopin
a.025	Arabesque 1	Claude Achille Debussy
a.026	An der schönen, blauen Donau	Johann Strauss, Sohn
a.027	Auf Flügeln des Gesanges	Felix Mendelssohn
a.028 a.029	Mazurka No.5 Gymnopédie 1	Fryderyk Franciszek Chopin Erik Satie
a.029	Étude, op.25-1	Fryderyk Franciszek Chopin
a.031	Clair de Lune	Claude Achille Debussy
a.032	Étude, op.10-5	Fryderyk Franciszek Chopin
a.033	Dr. Gradus ad Parnassum	Claude Achille Debussy
a.034	Grande Valse Brillante	Fryderyk Franciszek Chopin
a.035	La prière d'une Vierge	Tekla Badarzewska
a.036	Course en Troïka	Peter Ilyich Tchaikovsky
a.037	To The Spring	Edvard Hagerup Grieg
a.038	Valse, op.64-2	Fryderyk Franciszek Chopin
a.039	Radetzky Marsch	Johann Baptist Strauss
a.040	Träumerei	Robert Alexander Schumann
a.041	Moments Musicaux 3	Franz Peter Schubert
a.042	Prélude, op.28-15	Fryderyk Franciszek Chopin
a.043	Harmonious Blacksmith	Georg Friedrich Händel
a.044	Ungarische Tänze 5	Johannes Brahms
a.045	Türkischer Marsch	Ludwig van Beethoven
a.046	Nocturne No.2	Fryderyk Franciszek Chopin
a.047	Frühlingslied	Felix Mendelssohn
a.048	Präludium	Johann Sebastian Bach
a.049	Jägerlied	Felix Mendelssohn
a.050	Passepied	Claude Achille Debussy
a.051	Für Elise	Ludwig van Beethoven
a.052	Türkischer Marsch	Wolfgang Amadeus Mozart
a.053	Ständchen	Franz Peter Schubert

No.	Song Title	Composer	
a.054	Humoreske	Antonín Dvořák	
a.055	Blumenlied Gustav Lange		
a.056	Alpenglöckchen	Theodor Oesten	
a.057	Menuett G dur	Ludwig van Beethoven	
a.058	Venezianisches Gondellied	Felix Mendelssohn	
a.059	Alpenabendröte	Theodor Oesten	
a.060	Farewell to the Piano	Ludwig van Beethoven	
a.061	Brautchor	Wilhelm Richard Wagner	
a.062			
a.063			
a.064	Le Coucou	Louis Claude Daquin	
a.065	Menuett G dur	Johann Sebastian Bach	
a.066			
a.067	'		
a.068			
a.069			
a.070	a.070 La Cinquantaine Gabriel Marie		
a.071	771 Csikos Post Hermann Necke		
a.072	Dolly's Dreaming Awakening	Theodor Oesten	
a.073	La Violette	Louis Streabbog	
a.074	Fröhlicher Landmann	Robert Alexander Schumann	
a.075	Sonatine op.36-1	Muzio Clementi	
a.076	Sonatine op.20-1	Friedrich Kuhlau	
a.077	Sonatine No.5	Ludwig van Beethoven	
SELECTI	ONS		
A.001	Triumphal March from Aida	Giuseppe Verdi	
A.002	Ninna Nanna	Johannes Brahms	
A.003	Papageno's Aria	Wolfgang Amadeus Mozart	
A.004	The Spring	Antonio Lucio Vivaldi	
A.005	Polovtsian Dances	Alexander Borodin	
A.006	Air on the G String	Johann Sebastian Bach	
A.007	Cucaracha	Mexican Popular Song	
A.008	Samba Lelè	Brazilian Popular Child Song	
A.009	Old MacDonald Had a Farm	Popular Child Song	
A.010	When the Saints Go Marching in	Popular Song	
CZERNY	100		
b.001 -b.100	Czerny 100	Carl Czerny	
HANON			
C.001 -C.020	Hanon 1–20	Charles Hanon	

- $^{\ast}\,$ All rights reserved. Unauthorized use of this material for purposes other than private, personal enjoyment is a violation of applicable laws.
- $^{\ast}\,$ No data for the music that is played will be output from USB Computer port.
- $^{\ast}\,$ The copyrights to the songs marked by an asterisk "*" are owned by the Roland Corporation.
- $^{*}\,$ MASTERPIECE 3–4, 6–17 are piano solos. They have no accompaniment.



Main Specifications

Roland DP90e

DP90Se: Digital Piano

Manufactural	-		
Keyboard	T		
Keyboard	DP90e: 88 keys (PHA-4 Premium Keyboard: with Escapement and Ivory Feel)		
	DP90Se: 88 keys (PHA-4 Concert Keyboard: with Escapement and Ebony/Ivory Feel)		
Touch Sensitivity	Key Touch: 5 types, fixed touch		
Keyboard Mode	Whole Dual (volume balance adjustable) Split (split point adjustable)		
	Twin Piano		
Pedals			
D. I.I.	Damper (Progressive Damper Action Pedal, capable of continuous detection)		
Pedals	Soft (capable of continuous detection)		
	Sostenuto (function assignable)		
Sound Generator			
Piano Sound	SuperNATURAL Piano Sound		
MIDI Format	Conforms to GM2, GS, XGlite		
Max. Polyphony	128 voices		
wax. Folypholiy	Grand Piano: 14 Tones		
	Upright Piano: 5 Tones		
Tones	E. Piano: 10 Tones		
	Strings: 14 Tones		
	Other: 307 Tones (including 8 drum sets, 1 SFX set)		
Temperaments	8 types, selectable temperament key		
Individual Note	Stretched Tuning: -50.0-+50.0 cent		
Voicing (adjustable in individual notes)	Note Volume: -50–0 Note Character: -5–+5		
Master Tuning	415.3–466.2 Hz (adjustable in increments of 0.1 Hz)		
Transpose	Key Transpose: -6-+5 (in semitones)		
	Playback Transpose: -6-+5 (in semitones, including audio files)		
	Ambience (Off, 10 levels) Brilliance (Off, 21 levels)		
	Only for Piano Tones (Piano Designer):		
	Damper Resonance (Off, 10 levels) String Resonance (Off, 10 levels)		
	Key Off Resonance (Off, 10 levels)		
Effects	Cabinet Resonance (Off, 10 levels)		
	Duplex Scale (Off, 10 levels)		
	Dynemic Harmonic (Off, 10 levels) Soundboard Behavior (Off, 10 levels)		
	Only for Organ Tones:		
	Rotary Speaker Effect (Slow/Fast)		
Metronome			
Tempo	Quarter note = 10–500		
Beat	2/2, 0/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 3/8, 6/8, 9/8, 12/8		
Volume	11 levels		
SMF Recorder			
Parts	3 parts		
Save Song	Standard MIDI Files (Format 0)		
Note Storage	Approx. 30,000 notes		
	Song Select, Play/Stop, Rec, Rewinding, Fast-forwarding, Top of		
Controls	song, Part Mute, Mute Volume, Tempo, Tempo Mute, All Songs Play, Count-in, Song Balance, AB Repeat		
Tempo	Quarter note = 10–500		
Resolution	120 ticks per quarter note		
Audio			
Playback	File Format: Audio File (WAV 44.1 kHz, 16-bit linear format)		
Recording	Keyboard, SMF data File Format: Audio File (WAV 44.1 kHz, 16-bit linear format)		
Transpose	Playback Transpose: -6-+5 (in semitones)		
Playback Speed	75–125%		
aybuck speed	Song Select, Play/Stop, Rec, Rewinding, Fast-forwarding, Top of		
Controls Song Select, Play/Stop, Rec, Rewinding, Fast-Torwarding, It song, Playback Speed, All Songs Play, Song Balance, AB Re Center Cancel			

1.4				
Internal Memory	S. LANDIEL (5. 10)			
Save Song	Standard MIDI Files (Format 0)			
Songs	Max. 99 songs			
External Memory	LICD Florb Magnetic			
External Storage	USB Flash Memory			
Playable Software	Standard MIDI Files (Format 0, 1) Roland Original Format (i-Format) Audio File (WAV, 44.1 kHz, 16-bit linear format)			
Save Song	Standard MIDI Files (Format 0) Audio File (WAV, 44.1 kHz, 16-bit linear format)			
Other				
Internal Songs	Piano Masterpieces: 77 songs Selection: EU= 10 songs/ US= 18 songs/ Other= 10 songs Hanon: 20 songs Czerny #100: 100 songs			
Display	16 segments x 4 (LED), 8 characters (backlit LCD) Beat Indicator			
Language	English			
Music Rest	Folding music rest			
Keyboard Lid	Soft-fall fallboard			
Other Functions	Wireless Connect (when using optional Wireless USB Adapter) Panel Lock Auto Off V-LINK MIDI Visual Control Demo			
Connectors	DC In jack Input jack: Stereo miniature phone type Output (L/Mono, R) jacks: 1/4-inch phone type USB COMPUTER port: USB Type B USB MEMORY port: USB Type A Phones jacks (Stereo, with Twin Piano Individual Mode) x 2: Stereo miniature phone type, Stereo 1/4-inch phone type			
Rated Power Output	12Wx2			
Volume Level (SPL)	This value was measured according to the method that is based on Roland's technical standard.			
Speakers	12 cm (4-3/4 inches) x 2			
Headphones	Effects: Headphones 3D Ambience			
Control	Volume (Slider, with the speaker volume and the headphones volume automatically select function, with the volume limit function)			
Power Consumption	10 W (5–33 W) 10 W: Average power consumption while piano is played with volume at center position 5 W: Power consumption immediately after power-up; nothing being played			
Dimensions (including piano stand)	33 W: Rated power consumption (with lid close) 1,398 (W) x 344 (D) x 781 (H) mm 55-1/16 (W) x 13-9/16 (D) x 30-3/4 (H) inches (with lid open) 1,398 (W) x 339 (D) x 974 (H) mm 55-1/16 (W) x 13-3/8 (D) x 38-3/8 (H) inches * Measurements include stabilizer components attached.			
Weight (including piano stand)	DP90e: 46.1 kg/101 lbs 10 oz DP90Se: 47.4 kg/104 lbs 8 oz			
Owner's manual Assembly manual AC Adaptor Power Cord (for AC Adaptor) Headphone hook Screw set Stabilizer				
Options (sold separately) Options (sold separately) Headphones USB Flash Memory (*1) Wireless USB Adapter (*1) Audio Cable *1 Use USB Flash Memory and Wireless USB Adapter sold by Roland. We cannot guarantee operation if other products are used.				

^{*} In the interest of product improvement, the specifications and/ or appearance of this unit are subject to change without prior notice.

USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠ WARNING and ⚠CAUTION Notices

⚠WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly.
 ∴ CAUTION	* Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals

About the Symbols

The \triangle symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.

The Symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.

The symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

ALWAYS OBSERVE THE FOLLOWING

∠!\ WARNING

Do not disassemble or modify by yourself

Do not open (or modify in any way) the unit or its AC adaptor.

Do not repair or replace parts by yourself



Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.



Do not use or store in the following types of locations

• Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heatgenerating equipment); or are



- · Damp (e.g., baths, washrooms, on wet floors); or are
- · Exposed to steam or smoke; or are
- · Subject to salt exposure; or are
- Humid; or are
- Exposed to rain: or are
- · Dusty or sandy; or are
- · Subject to high levels of vibration and shakiness.

🗥 WARNING

Do not bend the power cord or place heavy objects

Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards!



Avoid extended use at high volume

This unit, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an audiologist.



sound levels that could cause permanent



Don't allow foreign objects or liquids to enter unit; never place containers with liquid on unit

Do not place containers containing liquid (e.g., flower vases) on this product. Never allow foreign objects (e.g., flammable objects, coins, wires) or liquids (e.g., water or juice) to enter this product. Doing so may cause short circuits, faulty operation, or other malfunctions.

••••••





Turn off the unit if an abnormality or malfunction

Immediately turn the unit off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:



- The AC adaptor, the power-supply cord, or the plug has been damaged; or
- If smoke or unusual odor occurs
- Objects have fallen into, or liquid has been spilled onto the unit; or
- The unit has been exposed to rain (or otherwise has become wet); or
- · The unit does not appear to operate normally or exhibits a marked change in performance.



melt through.

Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

🗥 WARNING

Adults must provide supervision in places where

When using the unit in locations where

mishandling of the unit can take place. An

adult should always be on hand to provide

Do not drop or subject to strong impact

Do not force the unit's power-supply cord

to share an outlet with an unreasonable

careful when using extension cords—the

total power used by all devices you have

connected to the extension cord's outlet

(watts/amperes) for the extension cord.

Excessive loads can cause the insulation

on the cord to heat up and eventually

must never exceed the power rating

number of other devices. Be especially

Do not share an outlet with an unreasonable number

Protect the unit from strong impact.

children are present, be careful so no

children are present

supervision and guidance.

(Do not drop it!)

of other devices



Do not place in an unstable location

Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.



Use only the supplied AC adaptor and the correct voltage

Be sure to use only the AC adaptor included with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.



Use only the included power cord

Use only the attached power-supply cord. Also, the included power cord must not be used with any other device.

•••••





A CAUTION

Place in a well ventilated location

The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation.

•••••



Grasp the plug when connecting or disconnecting the AC adaptor

Always grasp only the plug on the AC adaptor cord when plugging into, or unplugging from, an outlet or this unit.



Periodically clean the AC adaptor's plug

At regular intervals, you should unplug the AC adaptor and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire.



Manage cables for safety

Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.



Avoid climbing on top of the unit, or placing heavy objects on it

Never climb on top of, nor place heavy objects on the unit.



Do not connect or disconnect the AC adaptor with wet hands

Never handle the AC adaptor or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.



Cautions when moving this unit

If you need to move the instrument, take note of the precautions listed below. At least two persons are required to safely lift and move the unit. It should be handled carefully, all the while keeping it level. Make sure to have a firm grip, to protect yourself from injury and the instrument from damage.



- Check to make sure the screws securing the unit to the stand have not become loose. Fasten them again securely whenever you notice any loosening.
- Disconnect the power cord.
- Disconnect all cords coming from external devices.
- · Fold down the music rest.
- Close the lid.

Unplug the AC adaptor from the outlet before cleaning

Before cleaning the unit, turn it off and unplug the AC adaptor from the outlet



A CAUTION

If there is a possibility of lightning strike, disconnect the AC adaptor from the outlet

Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.

......



Take care so as not to get fingers pinched by lid

Be careful when opening/closing the lid so you do not get your fingers pinched (p. 12). Adult supervision is recommended whenever small children use the unit.



Precautions concerning use of bench

When using the bench, please observe the following points:



- Do not use the bench as a toy, or as a stepping stool.
- Do not allow two or more persons to sit on the bench.
- Do not adjust the height while sitting on the bench.
- Do not sit on the bench if the bolts holding the bench legs are loose. (If the bolts are loose, immediately re-tighten them using the supplied tool.)
- Never insert your hand into the gap (the metal height adjustment mechanism) under the seat lid. Doing so may cause your hand to be pinched or injured.

Keep small items out of the reach of children

To prevent accidental ingestion of the parts listed below, always keep them out of the reach of small children.



- Included Parts / Removable Parts:
- Screws for stand assembly (p. 62)Cord clamps (p. 62)

Handle the ground terminal carefully

If you remove the screw from the ground terminal, be sure to replace it; don't leave it lying around where it could accidently be swallowed by small children. When refastening the screw, make that it is firmly fastened, so it won't come loose.



Take care not to get burned

The area shown in the illustration may become hot, so take care to avoid burns.



Do not remove the speaker grille and speaker

Do not remove the speaker grille and speaker by any means. Speaker not user replaceable. Shock hazardous voltages and currents are present inside the enclosure.





IMPORTANT NOTES

Power Supply

- Do not connect this unit to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter or a motor (such as a refrigerator, washing machine, microwave oven, or air conditioner). Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet.
- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.
- To prevent malfunction and equipment failure, always make sure to turn off the power on all your equipment before you make any connections.
- With the factory settings, the unit will automatically be switched off 30 minutes after you stop playing or operating the unit. If the unit's power has been turned off automatically, you can use the [Power] switch to turn the unit back on again. If you don't want the unit to turn off automatically, change the "Auto Off" setting to "Off" as described on "Making the Power Automatically Turn Off After a Time (Auto Off)" (p. 39).

NOTE

The settings you were editing will be lost when the unit is turned off. If you want to keep your settings, you must save your settings before turning the unit off.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing.
 Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Also, do not allow lighting devices that normally are used while their light source is very close to the unit (such as a piano light), or powerful spotlights to shine upon the same area of the unit for extended periods of time. Excessive heat can deform or discolor the unit.
- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.
- Do not allow rubber, vinyl, or similar materials to remain on this unit for long periods of time. Such objects can discolor or otherwise harmfully affect the finish.
- Do not allow objects to remain on top of the keyboard. This can be the cause of malfunction, such as keys ceasing to produce sound.
- Do not paste stickers, decals, or the like to this instrument. Peeling such matter off the instrument may damage the exterior finish.

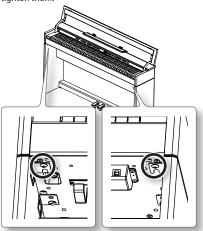
- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface.
- You can place a piece of felt or cloth under the rubber feet to prevent this from happening. If you do so, please make sure that the unit will not slip or move accidentally.
- Do not put anything that contains water on this unit. Also, avoid the use of insecticides, perfumes, alcohol, nail polish, spray cans, etc., near the unit. Swiftly wipe away any liquid that spills on the unit using a dry, soft cloth.

Maintenance

- To clean the unit, use a dry, soft cloth; or one that is slightly dampened. Try to wipe the entire surface using an equal amount of strength, moving the cloth along with the grain of the wood. Rubbing too hard in the same area can damage the finish.
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Since wood will expand and contract depending on how it is used and the environment in which it is located, products made of wood may experience a gradual loosening of the screws over time.

To ensure that your piano remains in safe, optimal condition, you should regularly check the tightness of the screws in the locations shown in the illustration. If you find that any screws are loose, use a screwdriver to tighten them.



Maintenance of polished-finish pianos (Only for DP90Se)

Since your piano has a polished finish that is as delicate as that found on finely crafted wooden furniture, it needs careful, periodic care. A few important suggestions concerning the proper care of the unit follow. For dusting, using a soft, clean cloth and/or piano-use feather duster. Be sure to wipe gently. Even the tiniest grains of sand or grit can leave scratches on the surface if too much force is applied while wiping. Do not use any cleaners or detergents, since they might deteriorate the surface of the cabinet, and produce cracks.

If the cabinet's surface loses its luster, wipe it thoroughly with a soft cloth dampened with a little of the polishing liquid. Do not use any cleaners or detergents, since they might deteriorate the surface of the cabinet, and produce cracks. Do not use dusting cloths that contain chemicals.

- · About piano polishing liquid
- Use polishing liquid as directed by the instructions for the product.
- Use only polishing liquid that is intended for use on polished-finish pianos. Using any other polishing liquid may cause scratches, deformation, or discoloration. To purchase polishing liquid, contact your nearby musical instrument dealer.
- Use the polishing liquid only on the polished surfaces of the cabinet. Always wipe the surface with the grain using straight, even strokes. Do not repeatedly wipe the same places using too much pressure, since that might result in the loss of luster.
- Be sure to keep the polishing liquid out of the reach of small children. If the polishing liquid is accidentally swallowed, first get them to vomit, then take them to a doctor.

Repairs and Data

 Please be aware that all data contained in the unit's memory may be lost when the unit is sent for repairs. Important data should always be backed up USB flash drives, or written down on paper (when possible). During repairs, due care is taken to avoid the loss of data. However, in certain cases (such as when circuitry related to memory itself is out of order), we regret that it may not be possible to restore the data, and Roland assumes no liability concerning such loss of data.

Additional Precautions

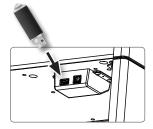
- Please be aware that the contents of memory can be irretrievably lost as a result of a malfunction, or the improper operation of the unit. To protect yourself against the risk of loosing important data, we recommend that you periodically save a backup copy of important data you have stored in the unit's memory on a USB flash drive.
- Unfortunately, it may be impossible to restore the contents of data that was stored in the unit's memory, USB flash drives once it has been lost. Roland Corporation assumes no liability concerning such loss of data.
- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- Never strike or apply strong pressure to the display.
- When disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- To avoid disturbing others nearby, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you.
- The sound of keys being struck and vibrations produced by playing an instrument can be transmitted through a floor or wall to an unexpected extent. Please take care not to cause annoyance to others nearby.
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.
- Do not apply undue force to the music rest while it is in use.
- Some connection cables contain resistors. Do not use cables that incorporate resistors for connecting to this unit. The use of such cables can cause the sound level to be extremely low, or impossible to hear. For information on cable specifications, contact the manufacturer of the cable.

 When opening/closing the lid or raising/folding down the music rest, please be careful not to get your fingers pinched between the movable part and the panel. In places where small children are present, make sure that an adult provides supervision and guidance.

Before Using External Memories

(Using Optional USB flash drive)

- Do not connect or disconnect USB flash drive while it is being read from, or written to (i.e., while the USB flash drive access indicator will blink).
- Carefully insert the USB flash drive all the way in until it is firmly in place.



Never touch the terminals of the USB flash drives.
 Also, avoid getting the terminals dirty.

- USB flash drives are constructed using precision components; handle the USB flash drives carefully, paying particular note to the following.
 - To prevent damage to the USB flash drives from static electricity, be sure to discharge any static electricity from your own body before handling the USB flash drives.
- Do not touch or allow metal to come into contact with the contact portion of the USB flash drives.
- Do not bend, drop, or subject USB flash drives to strong shock or vibration.
- Do not keep USB flash drives in direct sunlight, in closed vehicles, or other such locations.
- Do not allow USB flash drives to become wet.
- Do not disassemble or modify the USB flash drives.

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About the Ivory Feel Keyboard

Features of an ivory feel keyboard

Traditional piano keys are made from the best materials-ivory (for white keys) and ebony (for black keys). The Ivory Feel keyboard uses the latest in technology to reproduce the touch and feel of these materials.

An Ivory Feel keyboard offers the following features.

- We're sure you'll develop a fondness for the distinctive texture of these keys, which feels better the more you play them.
- Surfaces incorporate stripes of moisture-absorbing material for improved touch and playability.
- The keys feature subtle gloss and understated coloring, enhancing the look and elegance.
- The white keys are finished with a slight yellowish tinge for the look of real ivory.

Handling

- Do not write on the keyboard with any pen or other implement, and do not stamp or place any marking on the instrument. Ink will seep into the surface lines and become unremovable.
- Do not affix stickers on the keyboard. You may be unable to remove stickers that use strong adhesives, and the adhesive may cause discoloration.

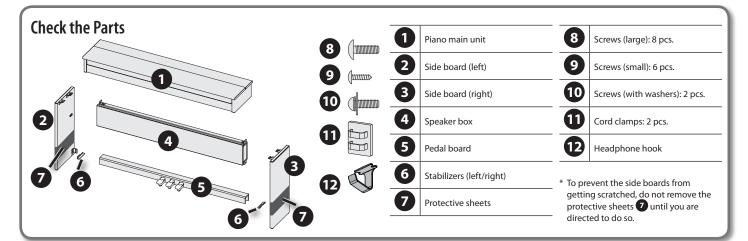
Care and maintenance

Please note the following points. Failure to do so may result in scratches on the surface finish, damaged gloss, or other discoloration or deformation.

- To remove dirt, use a soft cloth.
 Using a moistened and tightly wrung-out cloth, gently wipe off any dirt.
 Do not rub the surface vigorously.
- To remove stubborn dirt, use a commercially available keyboard cleaner that does not contain abrasives.
 Start by wiping lightly. If the dirt does not come off, wipe using gradually increasing amounts of pressure while taking care not to scratch the keys.
- Do not use benzene, paint thinner, or alcohol on the instrument.

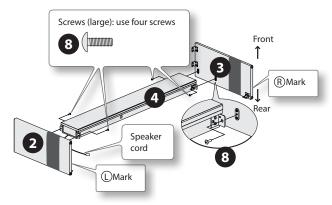


- * To ensure that you assemble this unit correctly, please read this manual carefully before you begin assembly. Keep this manual nearby for reference when needed.
- * Keep this unit horizontal when lifting it during assembly or transport.
- * Be careful not to pinch your hands or drop this unit on your foot during assembly or transport.
- * You must obtain the assistance of at least one additional person when assembling or transporting this unit.
- * Keep small parts such as screws, stabilizers, and cord clamps out of the reach of small children to ensure that these items are not swallowed accidentally.
- * The screwdriver needed for assembly is not included. You'll need have a Phillips screwdriver on hand.
- * Hand-tighten the screws first, and then tighten them firmly. Start by tightening the screws until they are approximately half hidden. Do not use a power screwdriver when tightening the screws to their final position. Doing so may strip the threads.
- * Tighten the screws firmly, and place the unit at a location that is level and sure to remain stable. Never place the unit on a shag carpet. If you do so, the pedal may be unstable, causing damage.
- * Do not place the body of the piano directly on the floor. By doing so, you risk damaging the bottom of the piano, the jacks on the bottom of the piano, and the USB case.



1. Attach the side board (left) 2 and the side board (right) 3 to the speaker box 4, and hand-tighten four of the screws (large) 3 to fasten them provisionally (four locations).

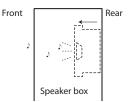
Attach the speaker box so that the speaker cord is on the same side as the left side board 2.



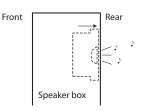
МЕМО

The speaker box can also be installed so that it faces toward the rear instead of toward the front. Having the speaker box face out the rear of the instrument allows the speakers to be directed toward listeners when the back of the instrument faces the audience.

Normal direction



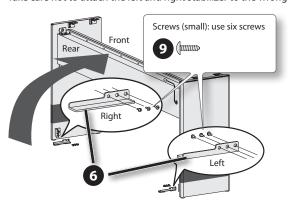
When facing to the rear



2. Place the unit upright, and use the screws (small) 9 to fasten the stabilizers 6 to the side boards 2, 3 (six locations).

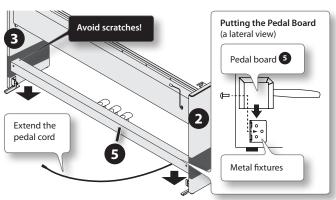
When standing the assembled unit up, grasp near the speaker box, and gently raise the assembly.

Take care not to attach the left and right stabilizer to the wrong sides.



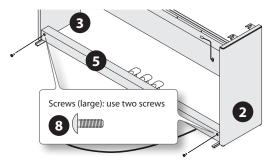
3. Place the pedal board onto the metal fixtures.

If you find it difficult to attach the pedal board 5, slightly loosen the speaker box screws (large) 8 that you fastened provisionally in step 1.

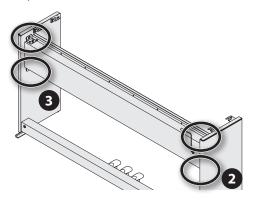


4. Remove the protective sheets 7 from each side board.

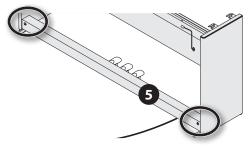
5. Hand-tighten the screws (large) **3** to provisionally fasten the pedal board **5** to the side boards **2**, **3** (two locations).



6. Firmly tighten each of the side board screws (four locations) that you provisionally tightened in step 1, making sure that they are secure.



7. Step on the pedals of the pedal board 5, and make sure that the rubber feet on the bottom of the pedals are in contact with the floor. Firmly tighten the pedal board screws 8 (two locations) that you provisionally tightened in step 5, making sure that they are secure.

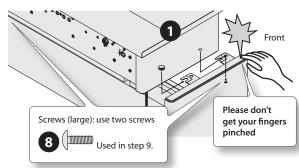


8. Align the protruding screws (one each at right and left) on the bottom of the piano 1 with the openings in the metal fittings on the side board 2, 3, then slide the piano forward until the screws are held in place.

Place the keyboard so that it is centered, both front to back and left to right.

NOTE

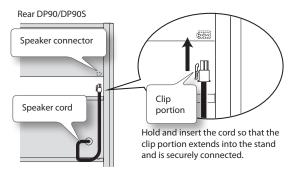
Grasp the piano 1 in the middle at the front and rear, taking care not to pinch your hands.



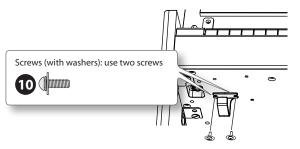
9. Use the screws (large) **3** to fasten the piano main unit **1** to the side boards **2**, **3** (one each for the right and left).

Make sure to insert the screws **3** by hand and give them a few turns by hand before using a screwdriver to tighten them.

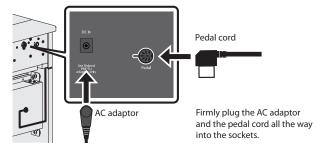
Connect the speaker cord extending from the rear of the speaker box to the piano main unit's speaker connector.



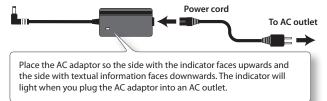
11. Use screws (with washers) 10 to fasten the headphone hook 12.



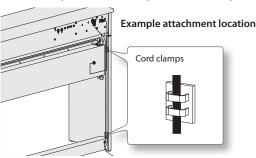
Connect the AC adaptor to the DC In jack, the pedal cord to the Pedal jack.



13. Connect the supplied AC adaptor and power cord.



14. As necessary, affix cord clamps to fasten the pedal cord.



When moving the unit

If you need to move the unit, close the keyboard cover and disconnect the AC adaptor. With at least one other person helping you, lift the unit horizontally and carry it, taking care not to pinch your hands or drop the unit on your feet.

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Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

AFRICA

REUNION

MARCEL FO-YAM Sarl 25 Rue Jules Hermann, Chaudron - BP79 97 491 Ste Clotilde Cedex REUNION ISLAND TEL: (0262) 218-429

SOUTH AFRICA

Paul Bothner(PTY)Ltd. Royal Cape Park, Unit 24 Londonderry Road, Ottery 7800 Cape Town, SOUTH AFRICA TEL: (021) 799 4900

ASIA

CHINA

Roland Shanghai Electronics Co.,Ltd. 5F. No.1500 Pingliang Road,

Yangpu Shanghai 200090, CHINA TEL: (021) 5580-0800

Roland Shanghai Electronics Co., Ltd. (BEIJING OFFICE)

3F, Soluxe Fortune Building 63 West Dawang Road, Chaoyang Beijing, CHINA TEL: (010) 5960-2565/0777

HONG KONG

Tom Lee Music 11/F Silvercord Tower 1

30 Canton Rd Tsimshatsui, Kow**l**oon, HONG KONG TEL: 852-2737-7688

Parsons Music Ltd.

8th Floor, Railway Plaza, 39 Chatham Road South, T.S.T, Kowloon, HONG KONG TEL: 852-2333-1863

INDIA

Rivera Digitec (India) Pvt. Ltd. Nirman Kendra Mahalaxmi Flats Compound Off. Dr. Edwin Moses Road, Mumbai-400011, INDIA

TEL: (022) 2493 9051

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PT. Citra Intirama Ruko Garden Shopping Arcade Unit 8 CR. Podomoro City JI.Letjend. S.Parman Kav.28 Jakarta Barat 11470, INDONESIA

TEL: (021) 5698-5519/5520 **KAZAKHSTAN**

Alatau Dybystary

141 Abylai-Khan ave, 1st floor, 050000 Almaty, KAZAKHSTAN TEL: (727) 2725477 FAX: (727) 2720730

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TEL: (323) 890 3700

U. S. A.

As of Apr. 1, 2013 (ROLAND)

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For EU Countries



- This symbol indicates that in EU countries, this product must be collected separately from household waste, as defined in each region. Products bearing this symbol must not be discarded together with household waste.
- Dieses Symbol bedeutet, dass dieses Produkt in EU-Ländern getrennt vom Hausmüll gesammelt werden muss gemäß den regionalen Bestimmungen. Mit diesem Symbol gekennzeichnete Produkte dürfen nicht zusammen mit den Hausmüll entsorgt werden.
- Ce symbole indique que dans les pays de l'Union européenne, ce produit doit être collecté séparément des ordures ménagères selon les directives en vigueur dans chacun de ces pays. Les produits portant ce symbole ne doivent pas être mis au rebut avec les ordures ménagères.
- Questo simbolo indica che nei paesi della Comunità europea questo prodotto deve essere smaltito separatamente dai normali rifiuti domestici, secondo la legislazione in vigore in ciascun paese. I prodotti che riportano questo simbolo non devono essere smaltiti insieme ai rifiuti domestici. Ai sensi dell'art. 13 del D.Lgs. 25 luglio 2005 n. 151.
- Este símbolo indica que en los países de la Unión Europea este producto debe recogerse aparte de los residuos domésticos, tal como esté regulado en cada zona. Los productos con este símbolo no se deben depositar con los residuos domésticos.
- Este símbolo indica que nos países da UE, a recolha deste produto deverá ser feita separadamente do lixo doméstico, de acordo com os regulamentos de cada região. Os produtos que apresentem este símbolo não deverão ser eliminados juntamente com o lixo doméstico.
- Dit symbool geeft aan dat in landen van de EU dit product gescheiden van huishoudelijk afval moet worden aangeboden, zoals bepaald per gemeente of regio. Producten die van dit symbool zijn voorzien, mogen niet samen met huishoudelijk afval worden verwijderd.
- Dette symbol angiver, at i EU-lande skal dette produkt opsamles adskilt fra husholdningsaffald, som defineret i hver enkelt region. Produkter med dette symbol må ikke smides ud sammen med husholdningsaffald.
- Dette symbolet indikerer at produktet må behandles som spesialavfall i EU-land, iht. til retningslinjer for den enkelte regionen, og ikke kastes sammen med vanlig husholdningsavfall. Produkter som er merket med dette symbolet, må ikke kastes sammen med vanlig husholdningsavfall.

- SE Symbolen anger att i EU-länder måste den här produkten kasseras separat från hushållsavfall, i enlighet med varje regions bestämmelser. Produkter med den här symbolen får inte kasseras tillsammans med hushållsavfall.
- Tämä merkintä ilmaisee, että tuote on EU-maissa kerättävä erillään kotitalousjätteistä kunkin alueen voimassa olevien määräysten mukaisesti. Tällä merkinnällä varustettuja tuotteita ei saa hävittää kotitalousjätteiden mukana.
- Ez a szimbólum azt jelenti, hogy az Európai Unióban ezt a terméket a háztartási hulladéktól elkülönítve, az adott régióban érvényes szabályozás szerint kell gyűjteni. Az ezzel a szimbólummal ellátott termékeket nem szabad a háztartási hulladék közé dobni.
- Symbol oznacza, że zgodnie z regulacjami w odpowiednim regionie, w krajach UE produktu nie należy wyrzucać z odpadami domowymi. Produktów opatrzonych tym symbolem nie można utylizować razem z odpadami domowymi.
- Tento symbol udává, že v zemích EU musí být tento výrobek sbírán odděleně od domácího odpadu, jak je určeno pro každý region. Výrobky nesoucí tento symbol se nesmí vyhazovat spolu s domácím odpadem.
- Tento symbol vyjadruje, že v krajinách EÚ sa musí zber tohto produktu vykonávať oddelene od domového odpadu, podľa nariadení platných v konkrétnej krajine. Produkty s týmto symbolom sa nesmú vyhadzovať spolu s domovým odpadom.
- See sümbol näitab, et EL-i maades tuleb see toode olemprügist eraldi koguda, nii nagu on igas piirkonnas määratletud. Selle sümboliga märgitud tooteid ei tohi ära visata koos olmeprügiga.
- Šis simbolis rodo, kad ES šalyse šis produktas turi būti surenkamas atskirai nuo buitinių atliekų, kaip nustatyta kiekviename regione. Šiuo simboliu paženklinti produktai neturi būti išmetami kartu su buitinėmis atliekomis.
- Šis simbols norāda, ka ES valstīs šo produktu jāievāc atsevišķi no mājsaimniecības atkritumiem, kā noteikts katrā reģionā. Produktus ar šo simbolu nedrīkst izmest kopā ar mājsaimniecības atkritumiem.
- Ta simbol označuje, da je treba proizvod v državah EU zbirati ločeno od gospodinjskih odpadkov, tako kot je določeno v vsaki regiji. Proizvoda s tem znakom ni dovoljeno odlagati skupaj z gospodinjskimi odpadki.
- Το σύμβολο αυτό υποδηλώνει ότι στις χώφες της Ε.Ε. το συγκεκοιμένο προϊόν πρέπει να συλλέγεται χωριστά από τα υπόλουπα οικιακά απορρίμματα, σύμφωνα με όσα προβλέπονται σε κάθε περιοχή. Τα προϊόντα που φέρουν το συγκεκριμένο σύμβολο δεν πρέπει να απορρίπτονται μαζί με τα οικιακά απορρίμματα.

For China

有关产品中所含有害物质的说明

本资料就本公司产品中所含的特定有害物质及其安全性予以说明。

不当的使用,将会导致有害物质泄漏的危险。

本资料适用于2007年3月1日以后本公司所制造的产品。

环保使用期限



此标志适用于在中国国内销售的电子信息产品,表示环保使用期限的年数。所谓环保使用期限是指在自制造日起的规定期限内,产品中所含的有害物质不致引起环境污染,不会对人身、财产造成严重的不良影响。 环保使用期限仅在遵照产品使用说明书,正确使用产品的条件下才有效。

产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
司州十分孙	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
外壳 (壳体)	×	0	0	0	0	0
电子部件(印刷电路板等)	×	0	×	0	0	0
附件(电源线、交流适配器等)	×	0	0	0	0	0

- 〇:表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。
- ×:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。 因根据现有的技术水平,还没有什么物质能够代替它。

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.

For EU Countries



This product complies with the requirements of EMC Directive 2004/108/EC.

For the USA

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

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.

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.

This equipment requires shielded interface cables in order to meet FCC class B limit.

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

For Canada -

CAN ICES-3 (B)/NMB-3 (B)

For Korea

사용자 안내문

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B 급 기기	이 기기는 가정용(B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며,
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·For C.A. US (Proposition 65) ·

WARNING

This product contains chemicals known to cause cancer, birth defects and other reproductive harm, including lead.

For the USA

DECLARATION OF CONFORMITY Compliance Information Statement

Model Name : DP90, DP90S Type of Equipment : Digital Piano

Responsible Party: Roland Corporation U.S.

Address: 5100 S. Eastern Avenue, Los Angeles, CA 90040-2938

Telephone: (323) 890-3700

