CDP-100

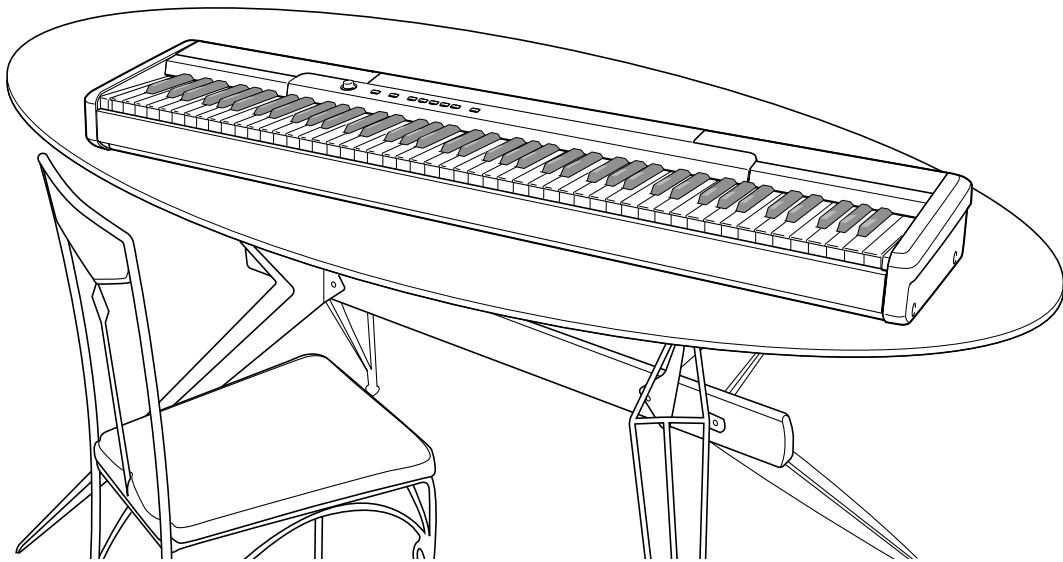## USER'S GUIDE
GUÍA DEL USUARIO

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

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

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

CASIO®

CDP100ES1A

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

IMPORTANT SAFETY INSTRUCTIONS

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

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

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

The power indicator being unlit does not mean the apparatus is completely disconnected from the MAINS.
When you need to have the apparatus completely disconnected from the MAINS, you must unplug the power cord. For that purpose, locate the apparatus in a way that secures easy access to the power cord.

NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 • Reorient or relocate the receiving antenna.
 • Increase the separation between the equipment and receiver.
 • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 • Consult the dealer or an experienced radio/TV technician for help.

FCC WARNING

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

Important!

Please note the following important information before using this product.

 • Before using the AD-12 Adaptor to power the unit, be sure to check the AC Adaptor for any damage first. Carefully check the power cord for breakage, cuts, exposed wire and other serious damage. Never let children use an AC adaptor that is seriously damaged.
 • The product is not intended for children under 3 years.
 • Use only CASIO AD-12 adaptor.
 • The AC adaptor is not a toy.
 • Be sure to disconnect the AC adaptor before cleaning the product.

 This mark applies in EU countries only.

 CASIO Europe GmbH
Bornbarch 10, 22848 Norderstedt, Germany

Contents

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

General Guide

Back Panel

① DAMPER PEDAL
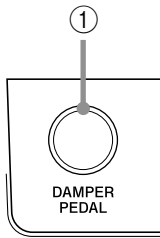
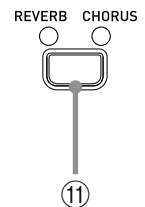## Attachment of the Score Stand

Insert the score stand into the slot at the top of the digital piano as shown in the illustration.

Left Side Panel

② POWER ON/OFF

③ DC 12V ⊖–●–⊕

④ MIDI OUT / IN

⑤ PHONES

VOLUME — MIN / MAX ⑥

FUNCTION ⑦

PLAY/STOP DEMO ⑧

TONE
GRAND PIANO 1 / GRAND PIANO 2 ⑨
ELEC PIANO / HARPSI-CHORD / STRINGS ⑩
∨ SONG SELECT ∧

REVERB CHORUS ⑪
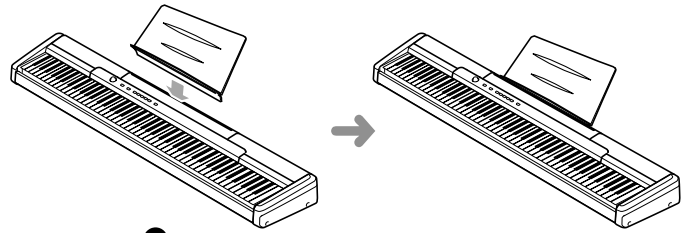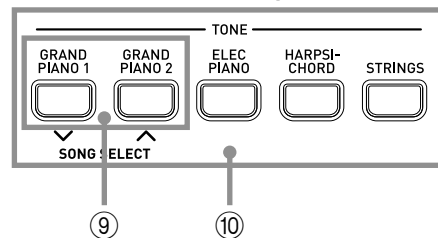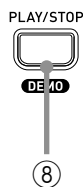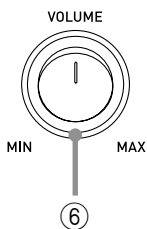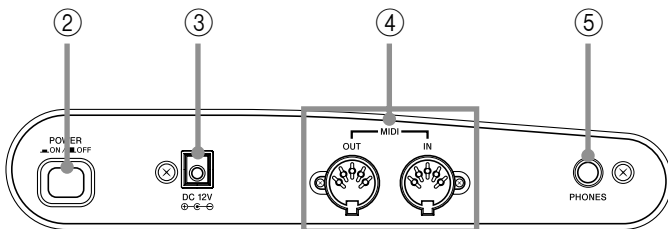
NOTE

• Each chapter of this manual starts with an illustration of the piano's console, which shows the buttons and other controllers you need to operate.

FUNCTION

REVERB CHORUS

403A-E-004A
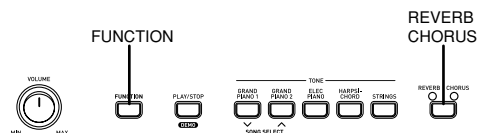
① DAMPER PEDAL jack

② POWER button

③ DC 12V jack

④ MIDI OUT/IN terminals

⑤ PHONES jack

⑥ VOLUME knob

⑦ FUNCTION button

⑧ PLAY/STOP, DEMO button

⑨ SONG SELECT buttons

⑩ TONE buttons

⑪ REVERB CHORUS button

NOTE
• Key, button, and other names are indicated in the text of this manual using bold type.

Playing Back the Built-in Demo Tunes

This digital piano comes with 5 built-in demo tunes, each of which features one of the built-in tones.

### To play the built-in tunes in sequence

1 While holding down the **FUNCTION** button, press the **PLAY/STOP** button.
   • This starts sequential playback of the built-in tunes.
   • You can play along with the built-in tunes on the keyboard, if you want. Tone assigned to the keyboard is the one that is preset for the built-in tune that is playing.
   • You can also cycle through the available tunes by holding down the FUNCTION button and pressing the SONG SELECT [∨] or [∧] button.
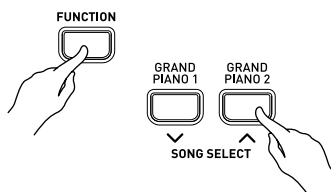
2 Press the **PLAY/STOP** button again to stop the tune play.

Tone	Title	Composer	Play Time
GRAND PIANO 1	Étude Op.25-9	F.F.Chopin	0:56
GRAND PIANO 2	NorwegischeTänze 2	E.Grieg	1:45
ELEC PIANO	Original	–	1:49
HARPSICHORD	Gavotte [Französische Suite 5]	J.S.Bach	0:43
STRINGS	Intermezzo Sinfonico [Cavalleria Rusticana]	P.Mascagni	1:49

To play a specific built-in tune

1 While holding down the **FUNCTION** button, press the **SONG SELECT** [∨] or [∧] button to cycle through the available tunes.

2 Press the **PLAY/STOP** button.
• This starts the playback of the tune in an endless loop.

3 Press the **PLAY/STOP** button again to stop tune play.

Power Supply

You can power this digital piano by plugging it into a standard household power outlet.
Be sure you turn off power and unplug the power cord from the electrical outlet whenever the digital piano is not in use.

Using the AC Adaptor

Make sure that you use only the AC adaptor specified for this digital piano.

Specified AC Adaptor: AD-12

[Left Side Panel]

DC 12V jack

AC adaptor AD-12

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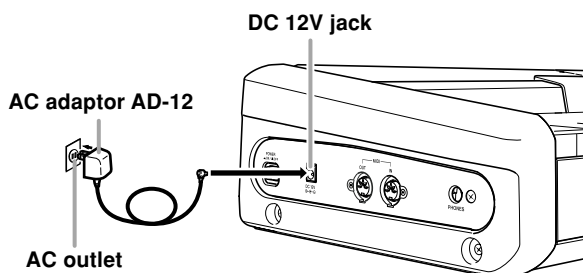
Note the following important precautions to avoid damage to the power cord.

● **During Use**
  • Never pull on the cord with excessive force.
  • Never repeatedly pull on the cord.
  • Never twist the cord at the base of the plug or connector.
  • The power cord should not be stretched tight while it is in use.

● **During Movement**
  • Before moving the keyboard, be sure to unplug the AC adaptor from the power outlet.

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

IMPORTANT!
• Make sure that the product is turned off before connecting or disconnecting the AC adaptor.
• Using the AC adaptor for a long time can cause it to become warm to touch. This is normal and does not indicate malfunction.
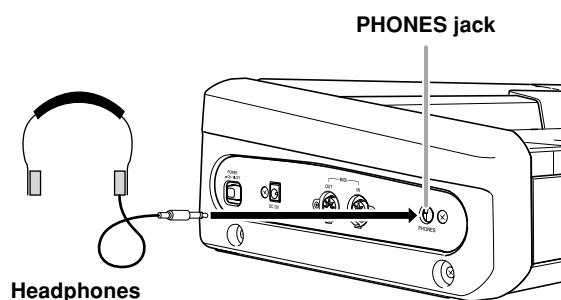

Connections

- Whenever connecting external equipment, first set the VOLUME knob of the digital piano and the volume controller of the external equipment to relatively low volume settings. You can later adjust volume to the level you want after connections are complete.
- Be sure also to refer to the documentation that comes with the external equipment for its proper connection procedures.

Connecting Headphones

Connect commercially available headphones to the digital piano's PHONES jack. This cuts off the built-in speakers, which means you can practice even late at night without disturbing others. To protect your hearing, make sure that you do not set the volume level too high when using headphones.

[Left Side Panel]

PHONES jack

Headphones

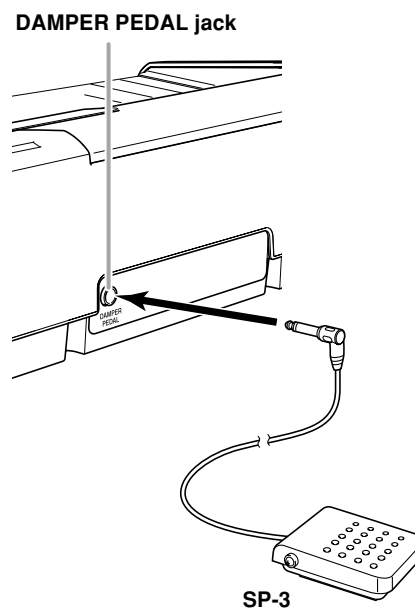## Connecting to a DAMPER PEDAL Jack

Connect the pedal's cable to the digital piano's DAMPER PEDAL jack.
Pressing this pedal causes notes to reverberate and to sustain longer.

[Back Panel]

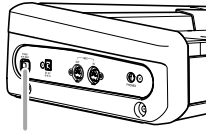DAMPER PEDAL jack

SP-3

Accessories and Options

Use only the accessories and options specified for this digital piano. Use of non-authorized items creates the danger of fire, electric shock, and personal injury.

Playing with Different Tones

Selecting and Playing a Tone

The piano comes with 5 built-in tones.

1 Press the **POWER** button.

POWER button

2 Use the **VOLUME** knob to adjust the volume level.

• Before playing, it is a good idea to set the volume to a relatively low level.

3 Press the **TONE** button of the tone you want to select.

4 Now try playing something on the keyboard.

Tone Name	Maximum Polyphony
GRAND PIANO 1	16
GRAND PIANO 2	32
ELEC PIANO	32
HARPSICHORD	16
STRINGS	32

Using Tone Effects

Reverb: Makes your notes resonate
Chorus: Adds more breadth to your notes

1 Press the **REVERB CHORUS** button to cycle through the effect settings as shown below.

• You can find out the current reverb/chorus configuration by looking at the REVERB and CHORUS indicator lamps.

REVERB   CHORUS   Both on
REVERB   CHORUS   Both off
REVERB   CHORUS   Reverb on
REVERB   CHORUS   Chorus on
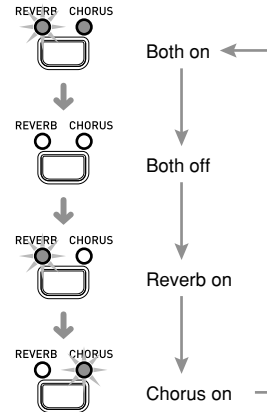
Selecting an Effect

You can select from among four reverb effects and four chorus effects by pressing the keyboard keys shown below.

❶ Reverb Effect Keys
Room 2 — — Hall 2
Room 1 — — Hall 1

C1   C2   C3   C4   C5   C6   C7   C8

❷ Chorus Effect Keys
Chorus 2 — — Chorus 4
Chorus 1 — — Chorus 3

VOLUME   FUNCTION   TONE   REVERB CHORUS

VOLUME

FUNCTION   PLAY/STOP   TONE
                         GRAND   GRAND   ELEC   HARPSI-   STRINGS   REVERB   CHORUS
                         PIANO 1 PIANO 2 PIANO   CHORD

MIN   MAX   DEMO
                   SONG SELECT
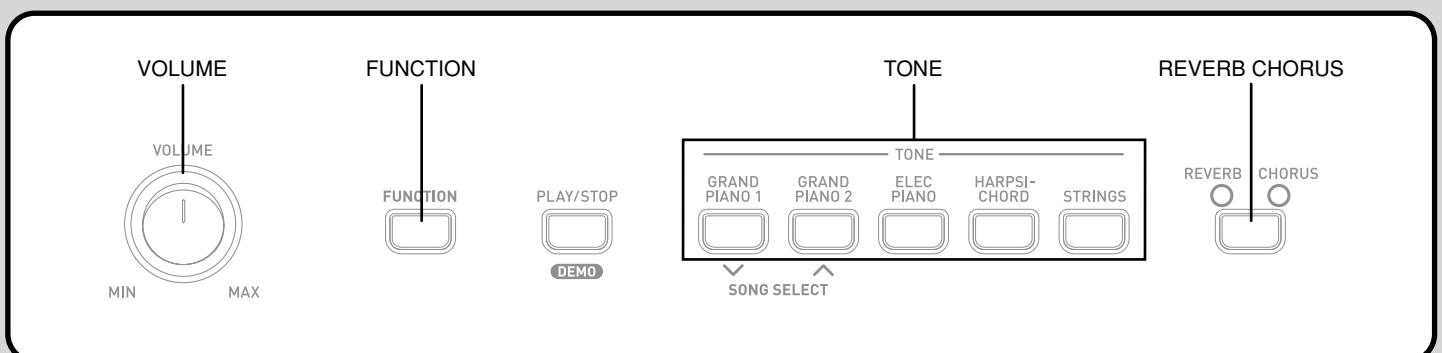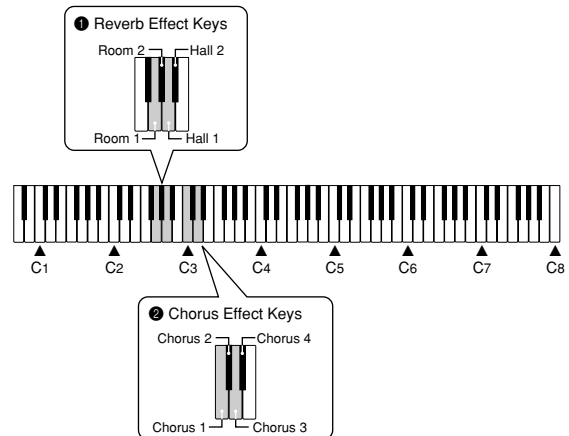
1 While holding down the **FUNCTION** button, press one of the keyboard keys shown above.

Layering Two Tones

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

1 Simultaneously press the **TONE** buttons of the two tones that you want to layer.

Example: Press GRAND PIANO 2 button and STRINGS button at the same time.

• The tones are now layered.

2 After you are finished using the layered tones, press the one of the **TONE** buttons again to unlayer them.

Adjusting the Volume of Layered Tones

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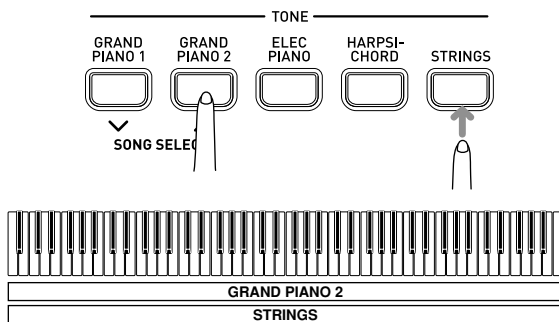

+ : Raises the volume
– : Lowers the volume

Other Settings

Changing the Keyboard Touch

❶ This setting changes the relative touch of the keyboard keys.

Changing the Pitch of the Piano to Match Another Instrument

❷ Use this setting to raise or lower the overall pitch of the piano. The setting range is plus or minus 50 cents (100 cents = 1 semitone) from the standard pitch of A4 = 440.0Hz.

Changing the Piano Key

❸ Use this setting to raise or lower the overall key of the keyboard in semitone steps.

1   While holding down the **FUNCTION** button, use the keyboard keys shown below to select the keyboard setting you want.
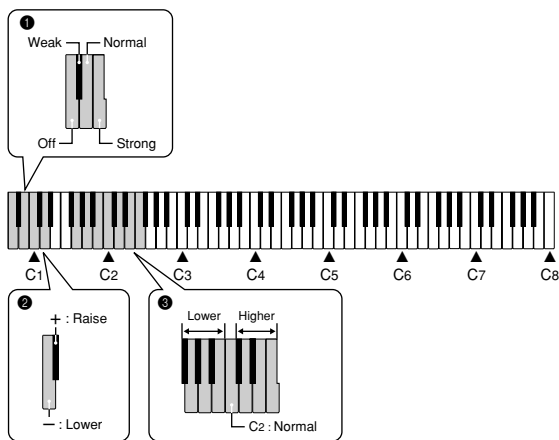
❶ **Changing the Keyboard Touch**
  Off
  Weak (Strong sound is produced even when relatively light pressure is applied.)
  Normal
  Strong (Normal sound is produced even when relatively strong pressure is applied.)

❷ **Changing the Pitch of the Piano to Match Another Instrument**
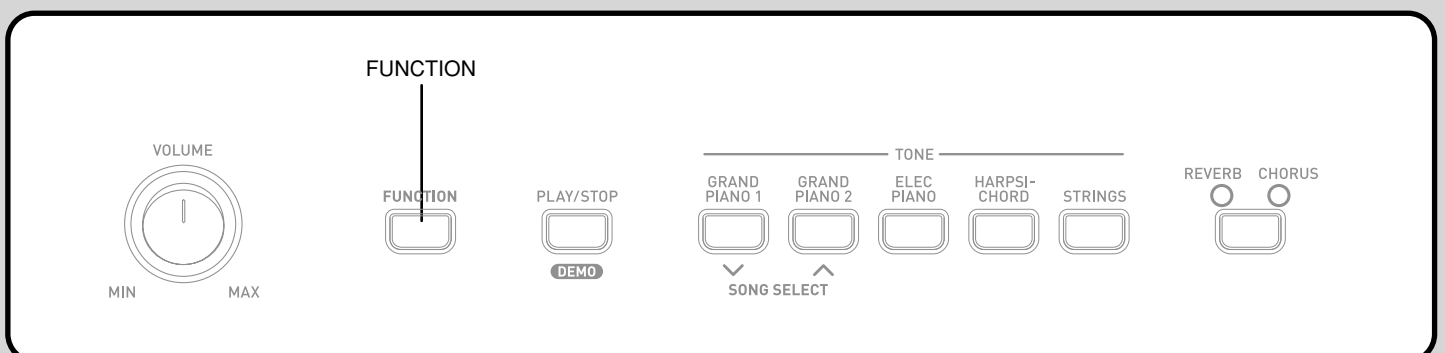 + : Raise
  – : Lower

∗ Each press of a key changes the current setting by approximately 1 cents (1/100 semitone).

NOTE

- Holding down the FUNCTION button and pressing keyboard keys "–" and "+" at the same time returns tuning to the standard A4 = 440.0Hz.

❸ **Changing the Piano Key**
  Higher (C$\sharp$ to F)
  Normal (C)
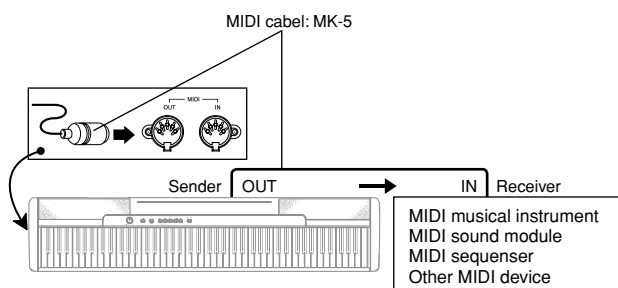 Lower (F$\sharp$ to B)

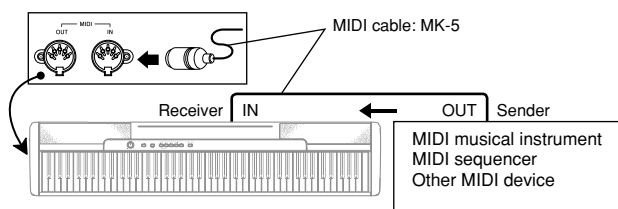403A-E-010A

Using MIDI

What is MIDI?

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

MIDI Connections

Send

MIDI cabel: MK-5

Sender | OUT → IN | Receiver

MIDI musical instrument
MIDI sound module
MIDI sequenser
Other MIDI device

Receive

MIDI cable: MK-5

Receiver | IN ← OUT | Sender

MIDI musical instrument
MIDI sequencer
Other MIDI device

MIDI Settings

❶ **Send Channel**
Use this setting to specify one of the MIDI channels (1 through 16) as the Send Channel for sending MIDI messages to an external device.

❷ **Local Control**
This setting controls whether or not power is cut off internally from the piano's keyboard and sound source. Turning off Local Control cuts off power to the keyboard and source, which means that the piano does not produce any sound when played. This comes in handy when you want to turn off the piano's keyboard and use its auto accompaniment feature to accompany an external sequencer or other device.

1. While holding down the **FUNCTION** button, press one the keyboard keys shown below to configure the setting you want.

❶ + / −   ❷ On / Off

C1 C2 C3 C4 C5 C6 C7 C8
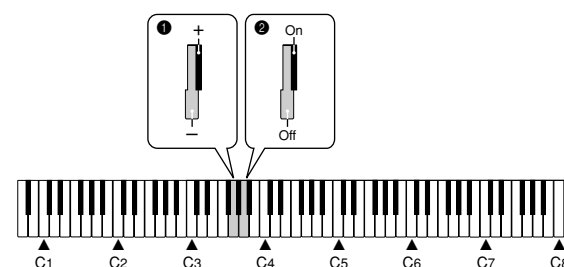
❶ **Send Channel**
 − : Decreases value
 + : Increases value

❷ **Local Control**
 Off
 On

Program Change

Tone Name	Program Change	Bank Select MSB
GRAND PIANO 1	0	0
GRAND PIANO 2	1	0
ELEC PIANO	2	0
HARPSICHORD	3	0
STRINGS	4	0

Troubleshooting

Symptom	Possible Cause	Action	Reference
No sound produced when keyboard keys are pressed.	1. VOLUME knob set to MIN. 2. Headphones connected to the digital piano. 3. Local Control turned off.	1. Move the VOLUME knob more towards MAX. 2. Disconnect the headphones from the digital piano. 3. Turn on Local control.	Page E-6 Page E-5 Page E-9
Keyboard out of tune.	1. The piano key is set to a value other than C. 2. Incorrect pitch setting of the piano.	1. Change the piano key setting to C, or turn the digital piano power off and then back on again. 2. Correct the pitch setting, or turn the digital piano power off and then back on again.	Page E-8 Page E-8
No sound produced by demo tune play.	1. VOLUME knob set to MIN. 2. Headphones connected to the digital piano.	1. Move the VOLUME knob more towards MAX. 2. Disconnect the headphones from the digital piano.	Page E-6 Page E-5
No sound produced by connected external MIDI sound source when the digital piano keys are pressed.	1. The digital piano Send Channel does not match the Send Channel of the MIDI sound source. 2. Volume or expression setting of the external sound source is set to 0.	1. Change the Send Channel settings so they are identical. 2. Change the volume or expression setting of the external sound source to an appropriate value.	Page E-9 See the documentation that comes with the external sound source.

403A-E-012A

Specifications

Models:	CDP-100
Keyboard:	88 piano keys (with touch response)
Polyphony:	32 notes, maximum
Tones:	5; with layer
Digital Effects:	Reverb (4 types), Chorus (4 types)
Built-in Tunes:	5
Pedal:	Damper
Other Functions:	• Touch: 3 types, off • Transpose: 1 octave (F♯ to C to F) • Tuning: A4 = 440.0Hz ±50 cents (adjustable)
MIDI:	16 multi-timbre receive

Input/Output:	• Headphones: Stereo mini jack
	    Output Impedance: 170Ω
	    Output Voltage: 4.8V (RMS) MAX
	• Pedal: Standard jack
	• Power: 12V DC
	• MIDI (OUT) (IN)

Speakers:	(12cm × 6cm) × 2 (Output: 8.0W + 8.0W)
Power Supply:	AC Adaptor: AD-12
Power Consumption:	12V ⎓ 18W
Dimensions:	132.3 × 27.8 × 13.2 cm (52 $^2/_{16}$ × 10 $^{15}/_{16}$ × 5 $^3/_{16}$ inch)
Weight:	Approximately 11.2 kg (24.7 lbs)

• Design and specifications are subject to change without notice.

Operational Precautions

Locating the Unit

Avoid the following locations.
- Areas exposed to direct sunlight and high humidity
- Areas subjected to very low temperatures
- Near a radio, TV, video deck, or tuner (unit can cause interference with audio or video signals)

Care of the Unit

- Never use benzene, alcohol, thinner or other such chemicals to clean the exterior of the unit.
- To clean the keyboard, use a soft cloth dampened with a weak solution of a mild neutral detergent and water. Wring out all excess moisture from the cloth before wiping.

You may notice lines in the finish of the case of this product. These lines are the result of the molding process used to shape the plastic of the case. They are not cracks or breaks in the plastic, and are no cause for concern.

NOTE
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403A-E-014A

MIDI Implementation Chart

Function ...		Transmitted	Recognized	Remarks
Basic **Channel**	**Default** **Changed**	1 1-16	1-16 1-16	
Mode	**Default** **Messages** **Altered**	Mode 3 X ✶✶✶✶✶✶✶✶✶✶✶✶✶✶	Mode 3 X	
Note **Number**	**True voice**	21-108 ✶✶✶✶✶✶✶✶✶✶✶✶✶✶	0-127 0-127	
Velocity	**Note ON** **Note OFF**	O 9nH V = 1-127 X 8nH V = 64	O 9nH V = 1-127 X 9nH V = 0,8nH V = ✶✶	✶✶: no relation ✶✶: sin relación
After **Touch**	**Key's** **Ch's**	X X	X X	
Pitch Bender		X	O	
Control **Change**	**0, 32** **1** **6, 38** **7** **10** **11** **64** **66** **67** **91** **93** **100, 101** **120** **121**	O X O✶1 O O O O X X O O O X O	O O O✶1 O O O O O O O O O O O	Bank select Modulation Data entry Volume Pan Expression Hold1 Sostenuto Soft pedal Reverb send Chorus send RPN LSB, MSB All sound off Reset all controller
Program **Change**	**:True #**	O 0-4 ✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶	O 0-4 ✶✶✶✶✶✶✶✶✶✶✶✶✶✶✶	
System Exclusive		O✶2	O✶2	
System **Common**	**: Song Pos** **: Song Sel** **: Tune**	X X X	X X X	
System **Real Time**	**: Clock** **: Commands**	X X	X X	
Aux **Messages**	**: Local ON/OFF** **: All notes OFF** **: Active Sense** **: Reset**	X X X X	X O O X	
Remarks		✶1 Fine tune and coarse tune send/receive, RPN Null, and pitch bend sense receives ✶1 Afinación fina y envío/recepción de afinación gruesa, RPN nulo y recepción de captación de inflexión de altura tonal. ✶2 • Reverb type [F0][7F][7F][04][05][01][01][01][01][01][00][vv][F7] vv=00: Room1, 01: Room2, 04: Hall1, 03: Hall2 • Chorus type [F0][7F][7F][04][05][01][01][01][01][02][00][vv][F7] vv=00: Chorus1, 01: Chorus2, 02: Chorus3, 03: Chorus4 ✶2 • Tipo de reverberación [F0][7F][7F][04][05][01][01][01][01][01][00][vv][F7] vv=00: Room1, 01: Room2, 04: Hall1, 03: Hall2 • Tipo de chorus [F0][7F][7F][04][05][01][01][01][01][02][00][vv][F7] vv=00: Chorus1, 01: Chorus2, 02: Chorus3, 03: Chorus4		

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

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

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

CASIO