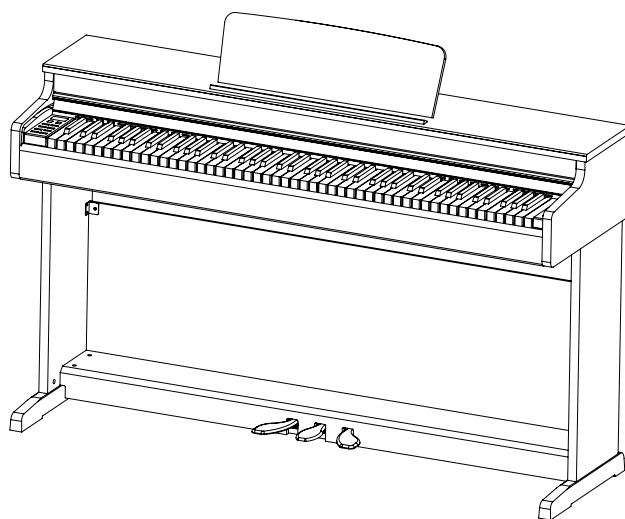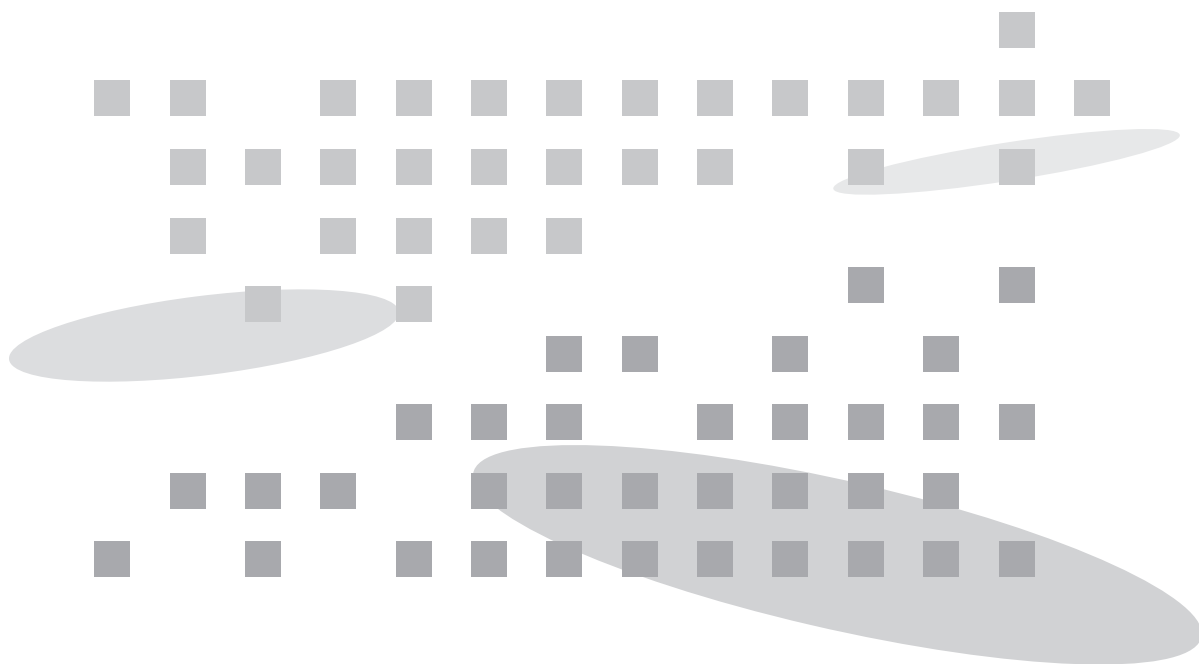# DYNATONE

OWNER'S MANUAL

High Performance USB Digital Piano

New feel, new look and new sound

Before Reading:

Safety Instructions

This section is intended to ensure the user's safety and prevent financial damage.
Please read this section carefully and use the product properly according to it.

⚠	WARNING:	Not following this warning may result in serious physical injury!

⚠	CAUTION:	Not following this caution may result in injury and/or financial loss!

⚠ WARNING:

To avoid the risk of death or physical injury due to electric shock, short circuit, damage or fire, please follow the fundamental safety instructions listed below:

· Never open up this product or attempt to break down or modify its inner parts. This product contains no user-serviceable components. If it seems to be malfunctioning, please immediately cease use of the product and contact customer service for repair.

· Do not expose the product to rain. Do not use this product under watery or wet environment, and do not leave any liquid container on its top as it may spill into the product. If any liquid is spilled into the product, immediately turn off the product, take the plug off the AC outlet and contact a designated service center for inspection.

· If the power cable or plug is either worn off or damaged, or the product suddenly stops sounding, or any unknown smell or smoke seem to emerge from the product, immediately turn off the product, take the adapter plug off the AC outlet and contact a designated service center for inspection.

· Always use the correct voltage for this product. The voltage specification can be found on the name label located behind this product.

· Always take the plug off the outlet prior to cleaning the product. Never insert or take off the plug with wet hands.

· Regularly check the condition of the power plug, and remove any substances or dusts that may have accumulated on it. Make sure to properly plug the power cord into the right outlet.

· In case of the gas leak, do not touch neither electric outlet nor power switch and open the window to ventilate the inside air.

⚠ CAUTION

To avoid the risk of physical injury, damage of this product or other financial loss, please follow the fundamental safety instructions listed below. This caution includes the following:

· Do not place the power cable nearby heat generators like heaters or radiators. Bending the cable too much could damage the cable. Do not put heavy objects on the cable, or leave the cable on a location where others may step on or trip over it. When plugging the power cord, the cable should be naturally downward.

· When removing the plug from either the product or the outlet, always seize the neck of the plug. Seizing and pulling from the cable could damage it.

· When using the multi-outlets, do not plug other devices or appliances other than the piano onto. Doing so may result in lowered sound quality and/or overheat the outlet.

· When not using the product for an extended period of time, take the plug off the outlet.

· When connecting this product to another electronic product, turn off the powers of both products before connecting. Set the volumes of all products to minimum before turning on the products. After making sure that all volumes are set to minimum, begin using this product and gradually increase the volume until the desired level is reached.

· Do not expose this product to excessive dust, vibration, or locations/sources of extreme heat (under direct sunlight, nearby heaters, inside cars during daytime), oil & water vapor (near kitchen or humidifier), high-humidity (basement, warehouse) or rapid changes in temperature (veranda). Exposure to such environments may result in external and/or internal damage.

· Do not use this product nearby devices like TVs, radios, stereo sound devices, mobile phones or other electronic devices. Doing so could result in excessive noise from either this product or the TV/radio.

· Do not place the product on unstable locations where it may fall off.

· Always remove all cables from the product before moving it.

· This product is for indoor use.

· Be sure to use the piano at the place where circuit breaker is installed.

· When cleaning the instrument, always use soft and dry or lightly wet cloth. Do not use cloth imbued with paint diluent, solvent, cleansing agent or chemical substances. Do not place any objects made of vinyl, plastic or rubber on the product. Doing so may alter the color of the keys or the panel.

· Do not place your weight or heavy objects on the product.

· Do not use excessive force while manipulating the buttons, switches or connectors.

· Be careful not to leave fingers below the key cover when closing it. Do not insert fingers below the key cover or into any other gap between the parts of this product.

· Do not insert or drop objects like paper or metal substances on the key cover, panel, or in the gap between keys. When done so accidentally, immediately turn off the power of the product, take the plug off the outlet, and contact a designated service center.

· Maintain 3 inches of space between the piano and the wall or other nearby objects. Insufficient space may interfere with air circulation and result in overheat.

· Carefully read the guide on assembling procedure and follow the instructions. Not doing so could result in damage of the instrument and/or injury of the user.

· Avoid using the product on volume high enough to be disturbing to ears for extended period of time, as doing so could affect one's hearing permanently. If you experience hearing difficulty, or excessive ringing on the ears, contact a physician.

· Before thunderstorms, take the plug off the outlet.

· In case the piano is flooded, shut off the power and then contact A/S center to check the condition.

Product Features

We thank you for purchasing our digital piano!

This product contains a maximum polyphony of 256 notes and a massive sound data collection as much as 4G bit to offer its 5 distinguished concert grand piano sounds and other high quality voices. Its RHA-3W (Tri-sensor) Wooden keyboard, a vast improvement over its two-sensored predecessor, and half-pedal feature that detects the precise movement of its keys add on its respectable quality.

There are the two-track recording system designed to aid the learning process, a USB terminal for computer music and stereo audio terminals for audio devices like MP3 player.
It supports Bluetooth® wireless technology and can be used in connection with mobile devices or PCs. Also, this piano has the pedagogical etude series of Classical Demo, Beyer, Czerny, Burgmüller and selected sonatines by many composers for playing reference.

To take full advantage of the wide range of features and utilities offered on this instrument, please read and examine this owner's manual thoroughly.

Please keep this owner's manual for future reference.

Thank you.

[FCC Rules]
Note: 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 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.
WARNING
Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

[CE Wireless equipment use information]
-Authorization for outdoor usage is limited to Channels 1~7 (2.400 ~ 2.454GHz).
-For outdoor usage a general authorization is required from the national spectrum authorities.
-For outdoor usage an authorization is required from the Electronic Communications Office.
-This equipment may be operated in all European Union member countries and Turkey.
-Productor RF specifications
1)Frequency mode(band): Bluetooth 5.0 dual-mode(BDR/EDR/BLE) Class 2
2) RF output power (EIRP): Maximum power level is not exceeding 5.47dBm
3) Frequency range(MHz): 2402MHz to 2480MHz

Bluetooth® The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Microchip Technology is under license. Other trademarks and trade names are those of their respective owners.

[Owner's Manual]
The specifications and appearance of this product may be changed without prior notice for quality improvement.
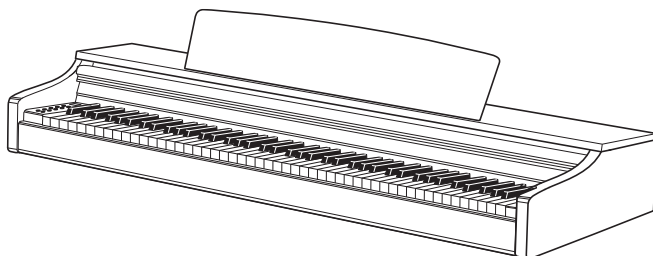
Table of Contents

Product Components

After purchasing the product, carefully unpack it and examine the existence and condition of the items listed below. If an item is missing or damaged, contact the place of purchase.

Main Unit

Owner's Manual

OWNER'S MANUAL
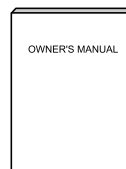
Left/Right Legs(a, b)
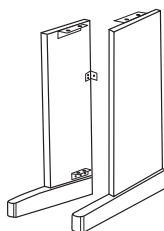
Pedal Plate(c)
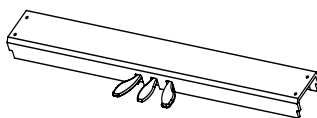
Backplate(d)
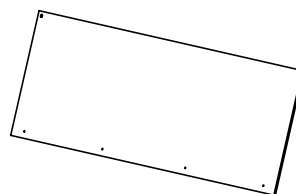
Pedal Plate Fixers
(e) (M6 ×25)mm, 4EA
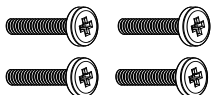
Backplate Fixers
(f) (M3.5 ×25)mm, 4EA
(g) (M4×13)mm, 2EA
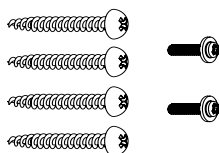
Main Unit Fixers
(h) (M6 ×15)mm, 4EA
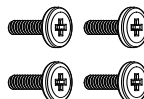
AC Adapter
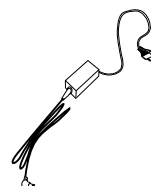
☞ Keeping the original packing materials can be very useful in the event where you need to re-pack the product in order to move it to a faraway location.

Assembly

1 Assembling the legs and pedals

① Place the **pedal plate (c)** between the **legs (a, b)** like the picture below and use the **pedal plate fixers (e)** to fix the pedal plate.
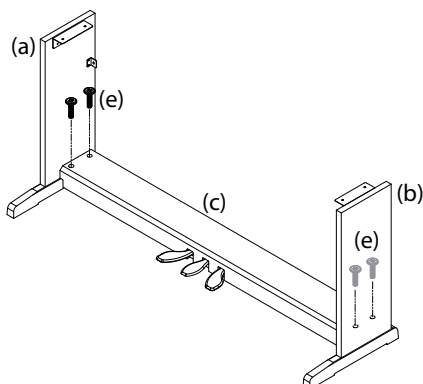
② Manipulate the pedal plate knob (see picture) so that it would be in firm contact with the floor on which the piano is installed.
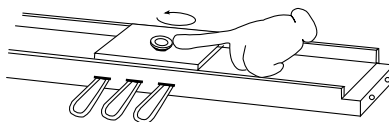
2 Assembling the backplate
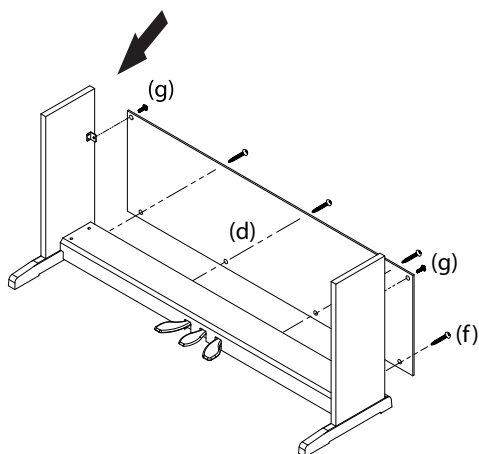
① Place the **backplate (d)** between the leg by inserting it from behind.

② Use the **backplate fixers (f), (g)** to fix the backplate.

③ Make sure that the plate is maintaining the right angle.

3 Assembling the main unit

1 Carefully place the main unit onto the assembled lower unit according to the picture so that its holes would match the brackets attached to the legs. Use the Main Unit Fixers (h, 4EA) to secure the connection between the main and lower units.
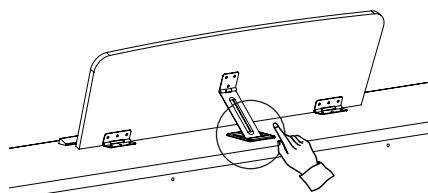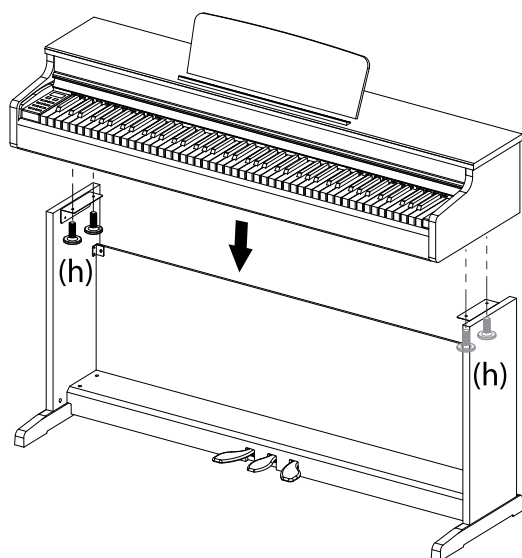
2 Raise the scoreboard on the top of the main unit and use the brackets on its back to keep it standing. You can set the scoreboard to the desired angle.

4 Connecting the pedal & power cables

1 Connect the pedal cable from the pedals to the pedal jack beneath the main unit. The pedal cable is tied below the pedal box.

PEDAL   USB   AUX OUT   AUX IN   DC IN

Pedal & Power terminals
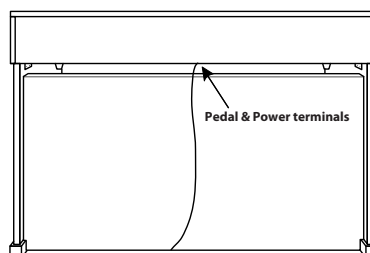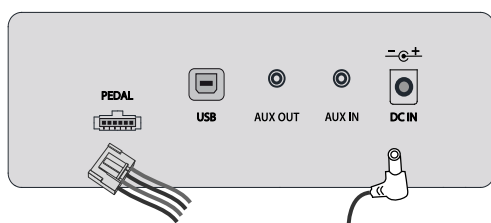
Parts

Power Switch

Power Switch (on the right of the keyboards)
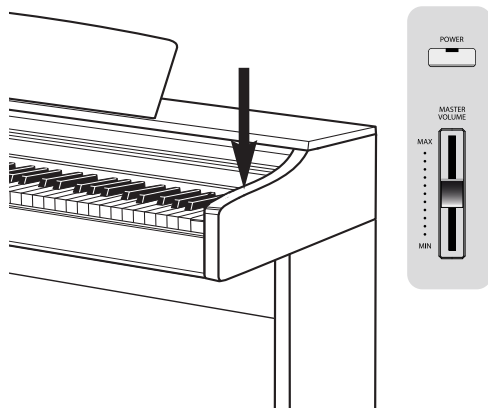
Insert the DC plug of the AC adapter into the piano and AC plug into a household AC power outlet, and press the **POWER** switch to turn on the piano.

☞ When the piano is first turned on, the initial default voice is 'Grand Piano 1(G.P1)'
☞ Use the **MASTER VOLUME** knob to adjust the volume.

To turn off the power, press and hold the power switch. All parameters and settings except for the recording are initialized whenever the piano is turned off and on again.

Auto Power Off(APO)
This product features an auto power management system which turns off the instrument automatically when left unused for 30 minutes.

Refer to page34 to change the APO setting.
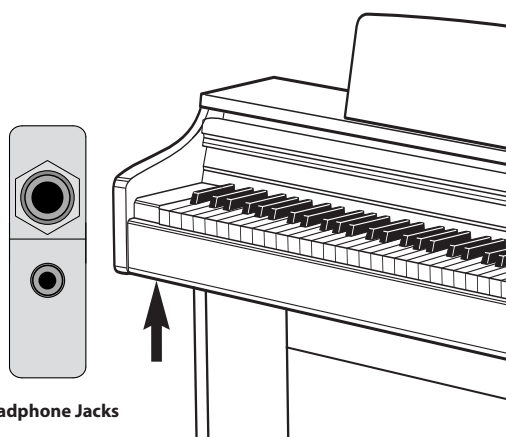
Headphone Jacks

Two headphone jacks are located on the left beneath the main unit.

☞ When a headphone is connected to the piano, the speakers of the piano are muted.
☞ Two headphone jacks exist, allowing up to two people to listen simultaneously.
☞ The product has one stereo 6.35mm (1/4 inch) jack and one stereo 3.5mm jack, so you can use both types of jacks.
☞ Headphones are sold separately.

Headphone Jacks
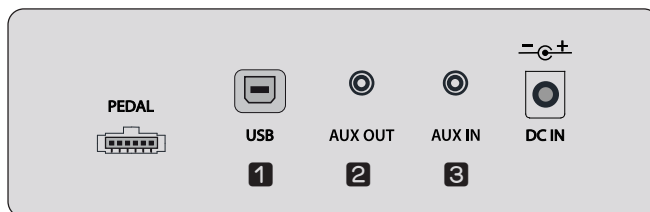
Connections

External Connection Terminals(on the bottom of the piano)

1 **Connecting to a Computer(USB TO HOST)**

The piano features a USB-to-host terminal to allow connecting directly to a computer.
By using this jack, the piano and computer may exchange MIDI data and audio data via USB.

1 Use a USB cable (sold separately) to connect the piano to the computer.
2 To use the piano as a MIDI device, run the MIDI software installed on the computer, and set the input/output device of the software to the USB audio device.
3 To use the piano as an audio device, connect the piano to the computer via USB and set the computer's audio device to the piano.

☞ If you use the piano as an audio device, the piano sound is able to be recorded on the computer.
☞ The USB connector is USB 2.0 A-B type. It is recommended to use a cable that is 1.2m or less.
☞ Usable on Windows XP or higher, and Mac OS X.
☞ No extra driver is required since it utilizes the common Windows device driver.
☞ Compatible with 4.0 or higher versions of iPhones and iPads.
☞ Android compatibility may be limited depending on the specific manufacturer or version of the device.
☞ If the device is not recognized, or the USB audio device is not seen on the list of the device setup menu, check the USB cable and ensure proper connection.
☞ When you connect the piano to a computer, please wait a few seconds. Using the piano at this time cause it to malfunction.
☞ If connecting the instrument to a computer causes the computer to crash or stop functioning, do not reattempt the connection (doing so may damage the computer or the piano) and immediately contact customer service.

2 **AUX OUT**

This jack is used when the use of a more powerful external sound producer (amplifiers etc.) is desired to reproduce the audio output of the piano.
Use an audio cable (sold separately) to connect the **AUX OUT** of the piano and the input jack of the external device to hear the piano through the external device.

3 **AUX IN**

By connecting external devices to this jack the piano may play via its internal speakers soundtracks provided by external sources such as smart devices or MP3 audio devices.
Connect the output terminal of laptops, smart devices, MP3 players and the **AUX IN** of the piano using an audio cable (sold separately) to reproduce the audio data of the devices through the piano's speaker system.

☞ When connecting to an external device using the AUX IN/OUT terminal, always turn on the external device first before turning on the power of the piano. When quitting the use of the external device, reverse the order and turn the piano off first before turning off the external device.
☞ The audio connection jacks are stereo 3.5mm connectors.

Pedals

The piano consists of three pedals that correspond to the three pedals of an acoustic piano.

Connecting the Pedal Cables

Retrieve the pedal cable tied below the pedal box, and connect it to the pedal input located below the main body.
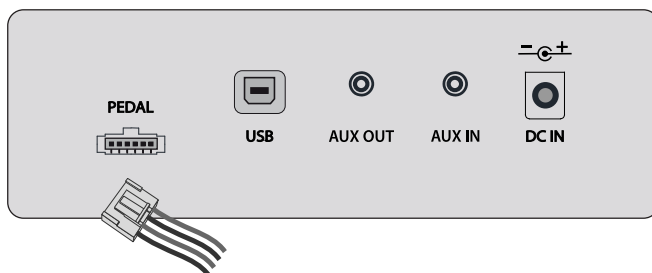
Pedal Functions

① Sustain Pedal (Right Pedal)

This pedal performs the same function as the sustain pedal of an acoustic piano; playing notes while keeping this pedal pressed will sustain the notes even if the keys have been released. It also provides the Half Pedal feature, which detects and responds to the delicate control that pianists exercise on acoustic pianos by pressing the pedal only halfway.

☞ The duration of the sustained notes differs depending on the chosen voice.
☞ The Half Pedal feature controls the sustain duration depending on how deep the pedal is pressed.

② Sostenuto Pedal (Middle Pedal)

This pedal performs the same function as the sostenuto pedal, which is the middle pedal of an acoustic grand piano. It behaves similarly to the sustain pedal, but only the notes that are being played at the moment the sostenuto pedal is pressed will be retained. Notes that are played after the pedal was pressed will not be affected, even if the pedal is kept pressed.

③ Soft Pedal (Left Pedal)

This pedal performs the same function as the soft pedal of an acoustic piano. Pressing this pedal causes the sound of the piano to be muffled a little bit and softens its character.

Rotary Effect Pedal (③Left Pedal & ②Middle Pedal)

When the effect option is set to Rotary(rot), the left (soft) and middle (sostenuto) pedals are automatically set to the rotary effect control pedal. Rotary effects are the same sound effects as rotary amplifiers in electronic organs. Pressing the left pedal advances the rotary effect at a high speed, and releasing the pedal proceeds at a slower speed. Press the middle pedal to stop the rotary effect.

☞ The rotary effect is only applied when playing the main voice.
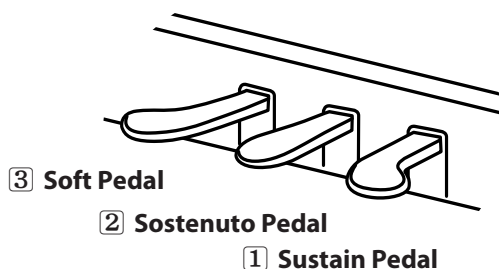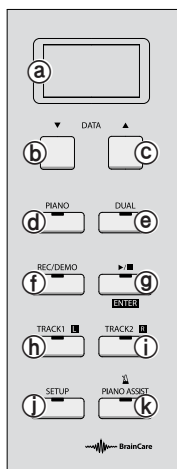
③ Soft Pedal
② Sostenuto Pedal
① Sustain Pedal

Control Panel

ⓐ LED Screen
ⓑ DATA Down
ⓒ DATA Up
ⓓ PIANO ·· Page 12
ⓔ DUAL ·· Page 13
ⓕ REC/DEMO ································· Page 20, 22
ⓖ ▶/■/ENTER ···························· Page 20, 22
ⓗ TRACK1/L ································· Page 20, 23
ⓘ TRACK2/R ································ Page 20, 23
ⓙ SETUP ··· Page 28
ⓚ PIANO ASSIST ····················· Page 16, 17, 23
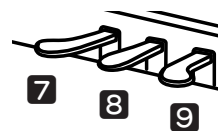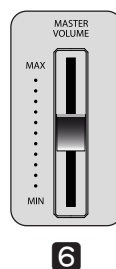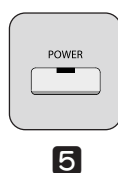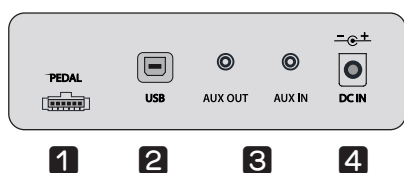
CONNECTIONS
1 PEDAL ··························· Page 7,10
2 USB ······························· Page 9
3 AUX IN/OUT ·············· Page 9

POWER
4 DC IN ··························· Page 7
5 Power Switch ·············· Page 8

VOLUME CONTROL
6 MASTER VOLUME ·····Page 8,12

PEDALS
7 Soft Pedal ····················Page 10
8 Sostenuto Pedal ·······Page 10
9 Sustain Pedal ·············Page 10

Basic Controls

Adjusting Volume

Use the **MASTER VOLUME** to adjust the overall volume of the piano.

☞ This also affects the volume of headphones.

Choosing a Voice

This product is a high class digital piano which offers the refined deep sound of quality acoustic grand pianos along with the sound of other diverse acoustic and electric musical instruments.

❶ Voice Types

The voices consist of 38 main voices, 1 percussion kit and 1 sound effect set.
The piano is capable of interpreting the MIDI standards, and once connected to a computer it is able to exploit the full range of the 128 General MIDI voices.

List of Voices

LED	Voice	LED	Voice	LED	Voice	LED	Voice
G.P1	Grand Piano1	P.Or	Pipe Organ	vcL	Vocal	CLA	Clarinet
G.P2	Grand Piano2	E.O1	Elec. Organ1	vln	Violin	br1	Brass Section1
G.P3	Grand Piano3	E.O2	Elec. Organ2	HAP	Harp	br2	Brass Section2
G.P4	Grand Piano4	E.O3	Elec. Organ3	Gt1	Nylon Guitar	S.br	Synth Brass
G.P5	Grand Piano5	Acd	Accordion	Gt2	Drive Guitar	A.SP	Alto Saxophone
Ht.P	Honky Tonk	St1	Symphony Strings	A.bS	Acoustic Bass	t.SP	Tenor Saxophone
E.P1	Elec. Piano1	St2	Synth Strings	E.bS	Elec Bass	Sn1	Synth1(Square)
E.P2	Elec. Piano2	St3	Slow Strings	Sn.b	Synth Bass	Sn2	Synth2(Sawtooth)
HSC	Harpsichord	P.St	Pizzicato Strings	FLt	Flute	dru	Drum
Vbr	Vibraphone	Chr	Choir Aahs	Obo	Oboe	S.EF	Sound Effect

☞ Refer to page 38 for a detailed list of Sound Effect.
☞ When you select an E.O1–3, the effect is automatically set to Rotary, allowing you to operate the rotary pedal. (Refer to page 10)

❷ Selecting the voice

Press **DATA** buttons to select the desired voice.

☞ When the piano is turned on, the initial default voice is 'Grand Piano 1(G.P1)'.
☞ The LED will display the choosen voice and change the voice with **DATA** buttons.
☞ Hold down a **DATA** button to quickly run through the voices.
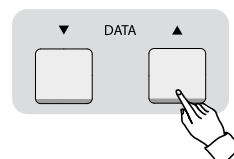
PIANO button

When the **PIANO** button is pressed, the 'Grand Piano1(G.P1)' is selected as the main voice. Use to instantly change the main voice to 'Grand Piano1'.

☞ When the **PIANO** button is pressed, it turns on.
☞ In dual mode pressing the **PIANO** button turns off dual mode. (Refer to page 13)
☞ It doesn't work in the recording mode. (Refer to page 20)
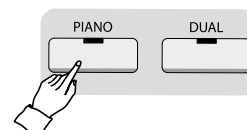
Dual

Dual Mode

Choose the desired mode with pressing the **DUAL** button repeatedly. Each time pressing the **DUAL** button, the mode changes.

Layer(LAr) → Split(SPL) → Twin Piano(tn) → Quit

Layer   **Split**   **Twin Piano**

☞ When the dual mode is turned off, the LED display returns to previous screen.

Layer

Layer allows the player to sound two voices simultaneously when playing a key.

1 Choose the desired main voice first.
Refer to page 12 for voice selection.

2 Press DUAL button.
When **DUAL** button is pressed, the layer mode is selected with displaying 'LAr'.
After displaying 'LAr', the layer voice is displayed on the screen.
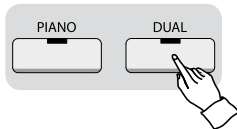
Layer   **St2** Synth Strings

3 Choose the desired layer voice.
Press **DATA** buttons to choose the layer voice. (Refer to page12)

☞ When changing the voice during dual mode, the secondary voice changes.
☞ You can adjust the balance between the two voices by adjusting the volume of the main and layer voices.
(Refer to page 30)

4 Press DUAL button 3 times to turn off the layer.
Layer(LAr) → Split(SPL) → Twin Piano(tn) → Quit

Split

Split divides the piano keyboard into two sections, and allows the player to assign different voices to each of the sections. For example, by using Split the melody part on the right could be played in piano voice while the accompaniment on the left sounding in acoustic bass voice.

❶ Choose the desired main voice first.

The main voice will be assigned to the right part. Refer to page 12 for voice selection.

❷ Press DUAL button repeatedly.

Not in the dual mode, pressing the **DUAL** button once will set the piano as Layer mode('LAr') and pressing the **DUAL** button once more will set it as Split mode(SPL). After displaying 'SPL', the split voice is displayed on the screen.
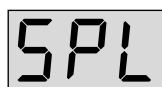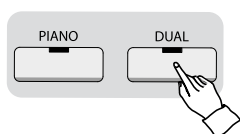
Split **A.bS** Acoustic Bass

❸ Choose the desired split voice.

Press **DATA** buttons to choose the split voice. (Refer to page12)

☞ When changing the voice during dual mode, the secondary voice changes.
☞ You can adjust the balance between the two voices by adjusting the volume of the main and layer voices.
 (Refer to page 30)

❹ Press DUAL button twice to turn off the split.

Layer(LAr) → Split(SPL) → Twin Piano(tn) → Quit

Changing the Split Point

Split Point refers to the point where the keyboard is divided.
While holding **DUAL** button, press the key that you wish to set as the split point. The LED displays the octave and the pitch name of the selected key. (e.g. Gb3, A4)

☞ The default split point is Gb3 (third Gb from the left, 'Gb3' in the screen)

▼ Split Point (Default G♭3)

Twin Piano

Twin Piano divides the piano keyboard into two equal smaller ("twin") keyboards with nearly identical registers. This allows two people to play the piano simultaneously on the same range without running into each other.

1 Select a voice.
Refer to page 12 for voice selection.

2 Press DUAL repeatedly.
Not in the dual mode, pressing **DUAL** button once will set the piano as Layer mode('LAr') and pressing **DUAL** button twice more will set it as Twin Piano mode(tn).

After displaying 'tn', the twin(main) voice is displayed on the screen. The keyboard will be divided into two parts with nearly identical registers, with E♭4 as the point of division.

▼ **E♭4**

Part 1   Part 2
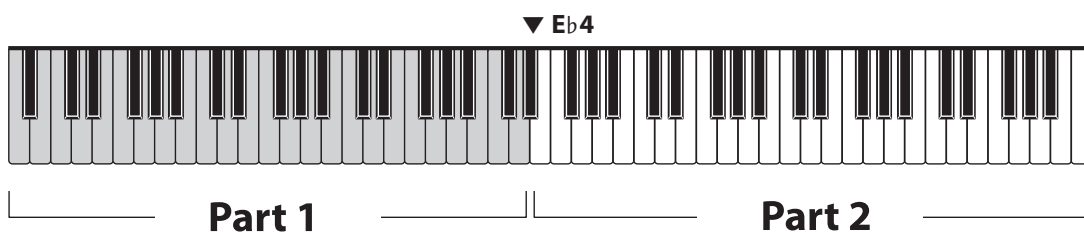
☞ The sustain pedal function can be applied separately in two parts.
☞ Part1: Soft pedal(Left pedal) / Part2: Sustain pedal(Right pedal)

3 Press DUAL button once again to quit using Twin Piano.
Layer(LAr) → Split(SPL) → Twin Piano(tn) → Quit

Piano Assist

This product has a metronome that is essential for the rhythm and piano education, and can be used to raise the sense of the beat. There is also a piano assist function that allows you to easily play various genres of music.

Metronome

Metronome provides clicks over a steady beat to help the player keep in time while playing.

Turning Metronome On/Off

Press **PIANO ASSIST** to begin hearing metronome beats and press it again to turn off the metronome.

Default Tempo

Adjusting Tempo

The range of metronome tempo is from 40 to 250 bpm (beats per minute). It may be adjusted by using **DATA** buttons.

☞ Keep a **DATA** button pressed to quickly run through the values.
☞ Pressing both **DATA** buttons simultaneously will restore the default tempo (120).
☞ Refer to page 29~30 for adjusting the metronome meter and volume.

Piano Assist Mode

The Piano Assist function consists of two modes: drum accompaniment and piano accompaniment
When piano accompaniment is selected, the accompaniment pattern consisting of only the piano will be played.

Choosing a Rhythm

This product contains 60 exciting rhythms of various genres. (Refer to the next page for rhythm list)
The drum accompaniment is indicated by r01 to r40, and the piano accompaniment by p01 to p20.

❶ Press and hold down PIANO ASSIST button for 2~3 seconds.
Then, 'r01' is displayed on the screen and it is set to rhythm selection mode.

Rhythm Type
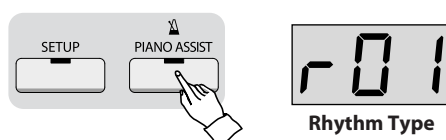
❷ Select the desired rhythm with DATA buttons.

☞ Pressing both **DATA** buttons simultaneously will restore the default value. (r01 or P01)
☞ Keep a **DATA** button pressed to quickly run through the values.
☞ Piano assist is not available for recording.

Rhythm List

LED	Rhythm	LED	Rhythm	LED	Rhythm	LED	Rhythm	LED	Rhythm
r01	Pop 1	r13	Funk	r25	Bossanova1	r37	Country 2	P09	RocknRoll
r02	Pop 2	r14	Latin 1	r26	Bossanova2	r38	Reggae	P10	Swing
r03	Pop 3	r15	Latin 2	r27	Bossanova3	r39	Chacha	P11	Boogie
r04	Pop 4	r16	Latin 3	r28	Waltz 1	r40	Makarena	P12	Waltz
r05	Ballad 1	r17	Rhumba	r29	Waltz 2	P01	Arpeggio 4/4	P13	Skate Waltz
r06	Ballad 2	r18	Salsa	r30	Waltz 3	P02	Arpeggio 3/4	P14	Jazz Waltz
r07	Rock 1	r19	Tango 1	r31	Waltz 4	P03	Ballad	P15	Beguine
r08	Rock 2	r20	Tango 2	r32	March 1	P04	Slow Rock	P16	Twist
r09	Shuffle1	r21	Swing 1	r33	March 2	P05	Polka	P17	Jive
r10	Shuffle2	r22	Swing 2	r34	Polka	P06	March	P18	Obladi
r11	Motown	r23	Jazz 1	r35	Bluegrass	P07	Blues1	P19	Dixieland
r12	Slow Rock	r24	Jazz 2	r36	Country 1	P08	Blues2	P20	Country

☞ r01 ~ r40: Drum Accompaniment, P01 ~ P20: Piano Accompaniment
☞ Refer to page 18 for using Piano Accompaniment.

Start and Stop

To use the piano assist, press and hold the **PIANO ASSIST** button to set the piano assist mode.
There are 2 methods to start the piano assist.

☞ You can adjust the piano assist volume. (Refer to page 32)

Default Tempo
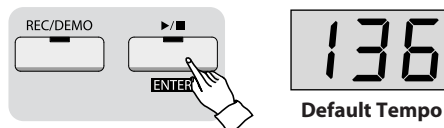
❶ Start

Drum Acc.(rhy): Press ▶/■ button to start piano assist.
Piano Acc.(Pno): Play a chord on the left part of the keyboard.
☞ In the Function menu, F21 Piano Assist Mode should be set to 'Pno' to play piano Accompaniment. (Refer to page 18)

❷ Stop

Press ▶/■ button to stop piano assist.
To quit the piano assist mode, press **PIANO ASSIST** button. The screen returns to the previous display.

Adjusting Tempo

You can adjust the rhythm tempo using the **DATA** buttons during rhythm playback.

☞ When you operate the **DATA** button in the rhythm selection step, the rhythm type changes.
☞ You can adjust the tempo only when the tempo is on the display.
☞ Keep a **DATA** button pressed to quickly run through the values.
☞ Pressing both **DATA** buttons simultaneously will restore the default tempo of each rhythm.

Using Piano Accompaniment(Pno)

1 Press SETUP button once.

When **SETUP** button is pressed, the LED will show 'F01'.

2 Select a function menu with DATA buttons.

Select the F21(Piano Assist Mode) menu with **DATA** buttons, and press ▶/■/ENTER button. Then the LED displays 'rhy'.

3 Choose 'Pno' option with DATA buttons.

Press **SETUP** button to exit the setup mode.

☞ Select 'rhy' to use Drum Accompaniment. (Refer to page 32)

4 Refer to page 17 for 'Start and Stop'.
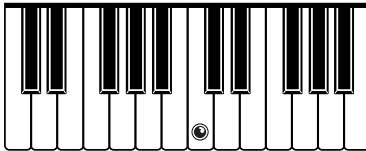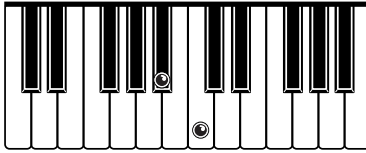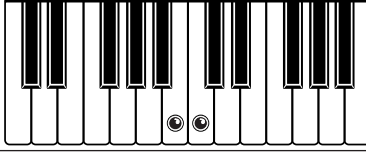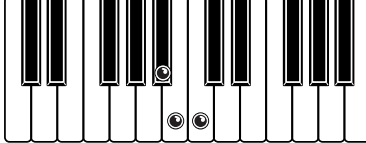
Chord Input Methods

Piano accompaniment is played only when there is a chord input. There are 2 types of chord input methods and it is automatically recognized according to the input.

☞ To use 'fingered mode' only, change the option in F22 of the function menu. (Refer to page 32)

Single Finger

The chords may be indicated on the lower register, using 1~3 fingers following the rules below.

Chord		Example
Major Play a note to generate a major triad with that note as its bass.	C	
Minor Play a note and its left side black key to generate a minor triad with the first note as its bass.	Cm	
Seventh Play a note and its left side white key to generate a dominant 7th chord with the first note as its bass.	C7	
Minor Seventh Play a note and its left side white and black keys to generate a minor 7th chord with the first note as its bass.	C m7	

Fingered

The fingered mode detects a chord only when it is fully spelled within the lower register, which is capable of generating more advanced chords and is the most commonly used method.
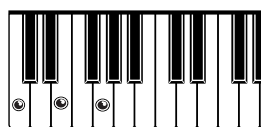
Major: C
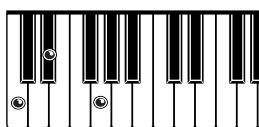
Minor: Cm
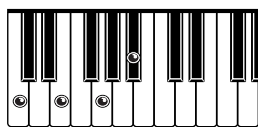
Dominant 7: C7
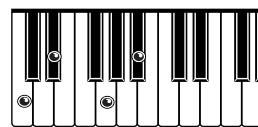
Minor 7th: Cm7
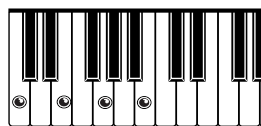
Major 7th: CM 7
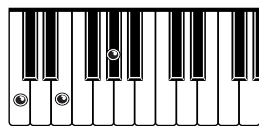
Augmented: Caug
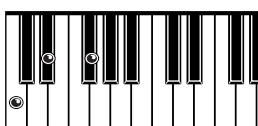
Diminished: Cdim
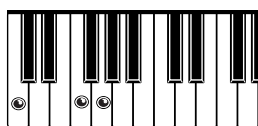
Suspended 4: Csus4
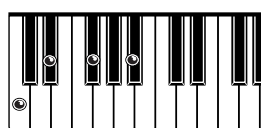
Minor 7♭5: Cm7-5
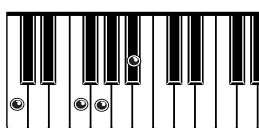
Dominant Sus4: C7sus4
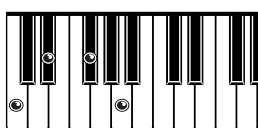
Dominant Diminished:C7dim
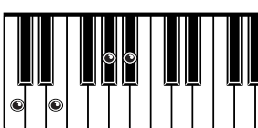
Dominant Augmented:C7aug
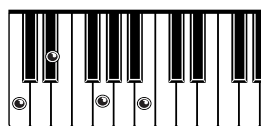
Minor Major 7th: CmM7
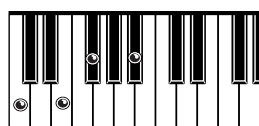
Dominant 7th♭5: C7-5
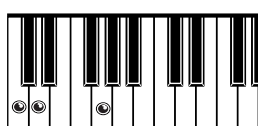
Suspended 2: Csus2
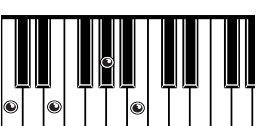
Major 7th Augmented:CM7aug
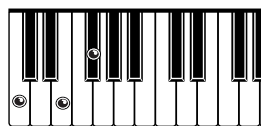
5th: C5
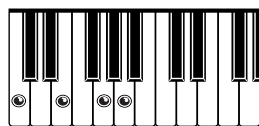
6th: C6
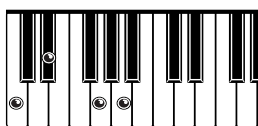
Minor 6th: Cm6
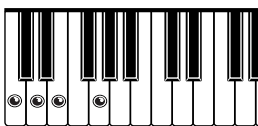
Add 9th : Cadd9
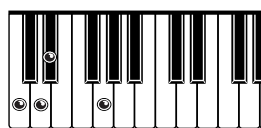
Minor Add 9th: Cmadd9
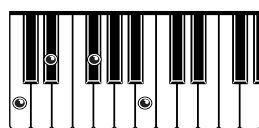
Minor Major 7th♭5: CmM7-5

Changing the Split Point

Split Point also determines the area of keyboard that is used for indicating chords when using the accompaniment in the Single Finger or Fingered mode. In these modes, chords should be indicated using the keys on the left part, otherwise they would not be recognized. While holding **DUAL**, press the key that you wish to set as the split point. A 'bell' sound will be heard, indicating that a new Split Point has been set. (default: G♭3)

19
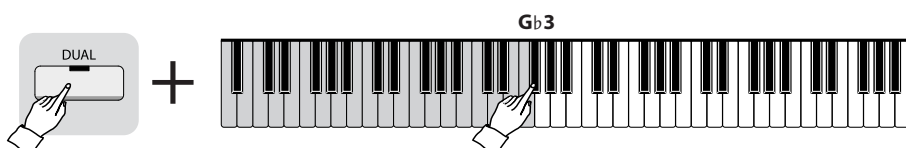
Record

The piano has a recording function that allows you to record your playing. With the recording function, you can record the song you have played, and this feature makes learning more effective.

Recording

1 Press REC/DEMO button.

The button will be lighted, and the **TRACK1/L** button will begin flashing. The Dual features may be used for recording.

2 Record to Track1.

Play a key, or press ▶/■/ENTER button to begin recording.

- ☞ While recording, **REC/DEMO** button is flashing.
- ☞ Recording will terminate if the piano is not played for a long time.
- ☞ When the capacity limit is exceeded, the LED shows 'FUL' and recording will stop.
- ☞ If the piano malfunctions when exceeded, turn the piano off and on again.
- ☞ All settings are also recorded along. However, metronome clicks and tune are not recorded.
- ☞ Metronome, effect, tuning, stretch tuning, hammer sound, string resonance, damper resonance, and cabinet resonance are not recorded.
- ☞ The piano assist can not be used in recording mode.

3 End recording Track1.

Press ▶/■/ENTER button to stop recording to track1. **TRACK1/L** button will turn on.
If desiring to listen what is recorded in Track 1, press ▶/■/ENTER button once again.

4 Record to Track2.

Press **TRACK2/R** button, and then **TRACK2/R** button will be flashing.
If you want to mute track 1 while recording to track 2, press **TRACK1/L** button to turn it off.
Record to track2 in the same way as recording track1.

Playing

1 Selecting Track

Select the desired track. After recording, both of the tracks are selected. Turn off the track you want to mute, then the track won't be played.

2 Press ▶/■/ENTER button.

☞ Selected tracks are not be able to be changed while playing.
☞ When playback, ▶/■/ENTER button will keep flashing.

3 Press REC/DEMO button again to quit recording and return to performance mode.

Erasing

Press and hold down a **TRACK** button until a 'bell' rings to erase the corresponding track.

Record Memory Bank

The piano offers three memory banks for recording, allowing the user to save up to 3 recordings with 2 available tracks per each recording.
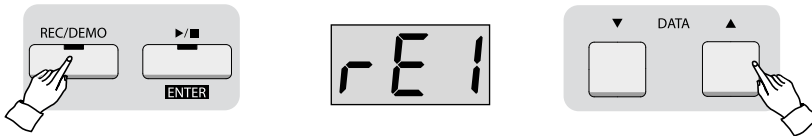
1 Choose a Memory Bank.

Press **REC/DEMO**. The LED will display 'rE1', which represents memory bank 1.

Use **DATA** buttons to move to other banks.

☞ A total of 3 banks (rE1, rE2, rE3) exist, each with 3 tracks.
☞ A track may record up to 4,500 notes, and a bank has a capacity of 9,000 notes (4,500 x 2). Therefore, the maximum number of notes that the piano may record at a time is 27,000.
☞ Recorded materials are preserved even if the piano is turned off, or the Initialize all function is performed.
☞ The recording will not be erased even if you reset the settings.

2 Erase a Memory Bank.

It can be erased for each track in the memory bank. For how to erase, please refer to the same page 'Erase'.

Demo/Edu

This piano features an extensive bank of demonstrational recordings of 50 selected works all performed by professional pianists. It also includes a dedicated music data bank consisting of pedagogical etudes by Beyer (106), Czerny (100/30/40), Burgmüller (25) and selected sonatines for students (45).

Listening to Music

❶ Press and hold down REC/DEMO button for 2~3 seconds.

The screen will show the first music group 'CLS' and **REC/DEMO** button will be lighted.

Classical

❷ Select a music group.

There are 1 demo folder and 6 etudes folders.
Search the desired folder with **DATA** buttons and press ▶/■/**ENTER** button to enter it.

☞ To move to a different folder, select '---' on the first of the list using **DATA** buttons and press ▶/■/**ENTER** button to move to the parent folder, where you may choose another folder to enter.

Display	CLS	Ed1	Ed2	Ed3	Ed4	Ed5	Ed6
Group	Classical	Beyer	Burgmüller	Czerny100	Czerny30	Czerny40	Sonatine

❸ Select the desired piece to play. (Refer to page 24~25 for the music list)

Use the **DATA** buttons to reach the desired piece.

❹ Play the music.

Press ▶/■/**ENTER** button to play the desired piece.

☞ **Part mute**
All the pieces in Etude groups(Ed1~Ed6) are divided into 2 parts and can be played separately.
When playback starts, the **TRACK1** and **TRACK2** buttons light up. Pressing the **TRACK1** button turns off the light and mutes the left-hand/accompaniment part, and pressing the **TRACK2** button mutes the right-hand / melody part.

☞ **Play one piece and all pieces**
When playing a piece, the default is to play all pieces in one folder. You can play it just once and stop, or repeat it. (Refer to page 33)

☞ **Adjust the music volume**
You can adjust the volume of the music. (Refer to page 33)

☞ **Music Transpose**
You can change the key of music. (Refer to page 33)

Adjusting Tempo

Each piece has its own default tempo. Each tempo is adjustable.

Default Tempo

❶ While playing a piece, press PIANO ASSIST button.

If you press **PIANO ASSIST** button, you can hear metronome beats of each piece's default tempo.
The screen displays the default tempo.

☞ Tempo can be adjusted only when Metronome is playing.

❷ Use DATA buttons to adjust tempo.

If you stop playing, and then play it again or play another piece, the tempo will be set as its default.
Pressing both **DATA** buttons simultaneously will restore the default Tempo.

❸ Press PIANO ASSIST button once again to exit the metronome.

The screen returns to the previous display.

Classical Demo List (CLS)

Display	Title	Composer
d01	Etude Op.10 No.4 in C-sharp minor 'Torrent'	**F. Chopin**
d02	Liebesträume S.541 No.3	**F. Liszt**
d03	Sonate No.8 in C minor 'Pathetique' Op.13 - 3. Rondo Allegro	**L. V. Beethoven**
d04	Prelude Op.3 No.2 in C-sharp minor	**S. Rachmaninoff**
d05	Moments Musicaux Op.94 No.3	**F. Schubert**
d06	Gymnopedie 1ere	**E. Satie**
d07	Jeux d'eau	**M. Ravel**
d08	Piano Sonata no.11 in A Major KV331 - 3. Rondo Alla turca	**W. A. Mozart**
d09	Maiden's Prayer	**T. Badarzewska**
d10	Das wohltemperierte Klavier I-Praeludium und Fuge 1 in C Major BWV 846	**J. S. Bach**
d11	The Seasons Op.37 b - VI. June 'Barcaroll'	**P. Tchaikovsky**
d12	Traumerei from Kinderszenen	**R. Schumann**
d13	The Flight Of The Bumble Bee	**N. Rimsky-Korsakov**
d14	Arabesque No.1 in E Major	**C. Debussy**
d15	Hungarian Dance No.5 in F-sharp minor	**J. Brahms**
d16	36 Fantasie per clavicembalo TWV33 - 1. Allegro	**G. P. Telemann**
d17	Impromptu Op.66 No. 4 C-sharp minor (Fantasie-Impromptu)	**F. Chopin**
d18	Etude Op.10 No.5 in G-flat Major 'Black Keys'	
d19	Etude Op.10 No.12 in C minor 'Revolutionary'	
d20	Nocturne Op.9 No.2 in E-flat Major-Andante	
d21	Nocturne Op.9 No.1 in B-flat minor-Larghetto	
d22	Nocturne Op.27 No.2	
d23	Ballade Op.23 No.1 in G minor	
d24	Polonaise in A-flat Major Op.53 Eroic	
d25	Waltz Op.18 Grand Waltz	
d26	Waltz Op.34 No.1	
d27	Waltz Op.64 No.1	
d28	Waltz Op.64 No.2	
d29	Scherzo No.2	
d30	Prelude Op.28 No.24 in D minor - Allegro appassionato	
d31	Sonate No.8 in C minor 'Pathetique' Op.13 - 1. Grave Allegro molto e con brio	**L. V. Beethoven**
d32	Sonate No.8 in C minor 'Pathetique' Op.13 - 2. Adagio cantabile	
d33	Sonate No.14 in C-sharp minor 'Moonlight' Op.27 No.2 - 1. Adagio sostenuto	
d34	Sonate No.14 in C-sharp minor 'Moonlight' Op.27 No.2 - 2. Allegretto	
d35	Sonate No.14 in C-sharp minor 'Moonlight' Op.27 No.2 - 3. Presto con fuoco	
d36	Fur Elese Wo059	
d37	Rondo A Capriccio Op.129	
d38	Variations (Ah! Vous dirai-je, Maman)	**W. A. Mozart**
d39	Piano Sonata No.9 in A minor KV310 - 1. Allegro maestoso	
d40	Piano Sonata No.10 in C Major KV330-1. Allegro moderato	
d41	Suite bergamesque 3. Clair de lune	**C. Debussy**
d42	Pour le piano 3. Toccata	
d43	The Seasons Op.37b - IV. April 'Snowdrop'	**P. Tchaikovsky**
d44	The Seasons Op.37b - X. October 'Autumn song'	
d45	Impromptus Op.90 No.2 in E-flat Major	**R. Schubert**
d46	12 Transcendental Etudes S.139-4 Mazeppa in D minor	**F. Liszt**
d47	Spring song-Frulingslied Op.62 No.6	**F. Mendelssohn**
d48	Waltz Op.39 No.15 in A-flat Major	**J. Brahms**
d49	Prelude in C-Major BWV933 (Harpsichord)	**J. S. Bach**
d50	Preludium und Fuge in B-flat major BWV560 (Pipe Organ)	

Beyer / Czerny / Burgmüller Etudes / Sonatines List (Ed1 ~ Ed6)

Group (Display)	Beyer(Ed1)	Czerny100(Ed3)	Czerny30(Ed4)	Czerny40(Ed5)
Title	001 ~ 106	C01 ~ C00	C01 ~ C30	C01 ~ C40

Display	Burgmüller(Ed2)	Display	Sonatines(Ed6)	Composer
b01	Burgmüller 25 Etude No.1 *La Candeur*	01.1	Sonatines op.20 no.1 1	
b02	Burgmüller 25 Etude No.2 *L'Arabesque*	01.2	Sonatines op.20 no.1 2	
b03	Burgmüller 25 Etude No.3 *La Pastorale*	01.3	Sonatines op.20 no.1 3	
b04	Burgmüller 25 Etude No.4 *La Petite Reunion*	02.1	Sonatines op.20 no.2 1	
b05	Burgmüller 25 Etude No.5 *Innocence*	02.2	Sonatines op.20 no.2 2	
b06	Burgmüller 25 Etude No.6 *Progrès*	02.3	Sonatines op.20 no.2 3	
		03.1	Sonatines op.20 no.3 1	
b07	Burgmüller 25 Etude No.7 *La Courant Limpide*	03.2	Sonatines op.20 no.3 2	F. Kuhlau
b08	Burgmüller 25 Etude No.8 *La Gracieuse*	03.3	Sonatines op.20 no.3 3	
		04.1	Sonatines op.55 no.1 1	
		04.2	Sonatines op.55 no.1 2	
		05.1	Sonatines op.55no. 2 1	
		05.2	Sonatines op.55 no.2 2	
		05.3	Sonatines op.55 no.2 3	
		06.1	Sonatines op.55 no.3 1	
		06.2	Sonatines op.55 no.3 2	
b09	Burgmüller 25 Etude No.9 *La Chasse*	07.1	Sonatines op.36 no.1 1	
b10	Burgmüller 25 Etude No.10 *Tendre Fleur*	07.2	Sonatines op.36 no.1 2	
b11	Burgmüller 25 Etude No.11 *La Bergeronnette*	07.3	Sonatines op.36 no.1 3	
b12	Burgmüller 25 Etude No.12 *L'adieu*	08.1	Sonatines op.36 no.2 1	
b13	Burgmüller 25 Etude No.13 *Consolation*	08.2	Sonatines op.36 no.2 2	
b14	Burgmüller 25 Etude No.14 *La Styrienne*	08.3	Sonatines op.36 no.2 3	
b15	Burgmüller 25 Etude No.15 *Ballade*	09.1	Sonatines op.36 no.3 1	
b16	Burgmüller 25 Etude No.16 *Douce Plainte*	09.2	Sonatines op.36 no.3 2	
b17	Burgmüller 25 Etude No.17 *La Babillarde*	09.3	Sonatines op.36 no.3 3	M. Clementi
		10.1	Sonatines op.36 no.4 1	
b18	Burgmüller 25 Etude No.18 *Inquiétude*	10.2	Sonatines op.36 no.4 2	
b19	Burgmüller 25 Etude No.19 *Ave Maria*	10.3	Sonatines op.36 no.4 3	
		11.1	Sonatines op.36 no.5 1	
		11.2	Sonatines op.36 no.5 2	
		11.3	Sonatines op.36 no.5 3	
b20	Burgmüller 25 Etude No.20 *La Tarentelle*	12.1	Sonatines op.36 no.6 1	
b21	Burgmüller 25 Etude No.21 *L'harmonie Des Anges*	12.2	Sonatines op.36 no.6 2	
b22	Burgmüller 25 Etude No.22 *Barcarolle*	13.1	Sonatines Hob. 16-35 1	
b23	Burgmüller 25 Etude No.23 *Le Retour*	13.2	Sonatines Hob. 16-35 2	J.Haydn
		13.3	Sonatines Hob. 16-35 3	
b24	Burgmüller 25 Etude No.24 *L'hirondelle*	14.1	Sonatines K.545 1	
		14.2	Sonatines K.545 2	W.A.Mozart
		14.3	Sonatines K.545 3	
b25	Burgmüller 25 Etude No.25 *La Chevaleresque*	15.1	Sonatines op.49 no.2 1	
		15.2	Sonatines op.49 no.2 2	L.V.Beethoven
		16.1	Sonatines op.49 no.1 1	
		16.2	Sonatines op.49 no.1 2	
		17.1	Sonatines op.20 no.1 1	J.L.Dussek
		17.2	Sonatines op.20 no.1 2	

☞ In Sonatines, the first two digits are piece number and the third digit means a movement.

BrainCare

This product has a BrainCare function that improves concentration and relaxation. Among these, binaural beats is a function to induce EEG, and it becomes more effective when used with headphones. Use the mix of the binaural beats, white noise, and healing music as desired.

BrainCare Mode

While holding down the SETUP button, turn on the piano power.

Press the SETUP button until the piano is fully turned on and the piano is set to BrainCare mode. The display will show 'brn' (brain). To return to performance mode, turn the piano off and then on again.

☞ You can not use the keyboard or other functions in the BrainCare mode.

SETUP + POWER
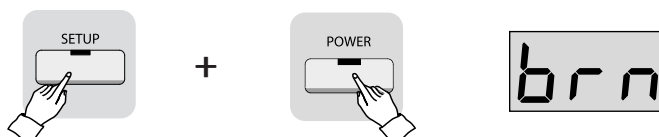
BrainCare Type

BrainCare sounds are divided into three categories: Binaural Beats, White Noise, and Healing Music. Playback buttons are assigned to each category, and multiple playback is possible.

Start and Stop

1 Play the sound with the previous and next buttons in each category.

You can use the previous and next buttons in each category to play the BrainCare sound. Press the **previous** button to return to the previous sound, or the **next** button to change to the next sound. For category assignment buttons, please refer to the 'BrainCare Type' section at the top.

PIANO / DUAL	REC/DEMO / ▶/■ ENTER	TRACK1 L / TRACK2 R
Previous **Next**	**Previous** **Next**	**Previous** **Next**
[Binaural Beats]	**[White Noise]**	**[Healing Music]**
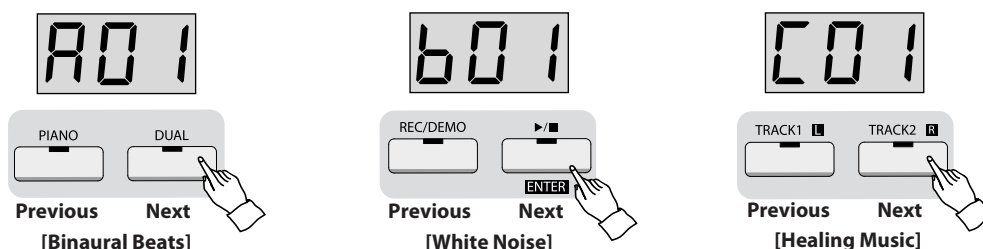
2 Press Previous and Next buttons of each category simultaneously to stop the playback.

☞ Also, if you press 'Next' button on the last sound, the LED displays 'OFF' and the playback will stop.

BrainCare List

Below is a list of BrainCare sounds. For the playback method, see page 26.

Binaural Beats			White Noise			Healing Music		
Display	Title	Type	Display	Title	Type	Display	Composer	Title
A01	Alpha	Relax	b01	White Noise	Working	C01	Handel	Largo
A02	Beta	Working	b02	Vacuum Cleaner	Working	C02	Liszt	Liebesträume
A03	Gamma	Working	b03	Fan Noise	Working	C03	Gounod	Ave Maria
A04	Delta	Deep Sleep	b04	Jet Cavin	Working	C04	Chopin	Nocturne Op.9-1
A05	Theta	Meditation	b05	Galaxy Ship	Working	C05	Chopin	Nocturne Op.9-2
			b06	Baby for Sleep	Sleep	C06	Chopin	Nocturne Op.15-2
			b07	Sleep	Sleep	C07	Chopin	Nocturne Op.27-2
			b08	Sea Waves	Meditation	C08	Chopin	Nocturne Op.32-1
			b09	Crickets Night	Meditation	C09	Chopin	Nocturne Op.37-1
			b10	Rain Noise	Meditation	C10	Chopin	Nocturne Op.37-2

Volume Control

Use the DATA button to adjust the individual volume.

The volume of each category can be adjusted individually. When operating the **DATA** button, the volume of the last operated category will be adjusted. To adjust the volume of another category, select the category with the **previous** and **next** buttons and operate the **DATA** button.
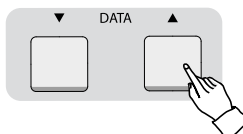
☞ Range: 000 ~ 100 (Default: 060)

Timer Setting

You can set the playback timer.
Use the **SETUP**, **PIANO ASSIST** buttons to set the desired timer time. The default setting is Timer Inactive (000). The first number displayed when operating the timer button is the current time remaining. (Unit: minute) Once the button is operated again, the timer setting value is displayed.
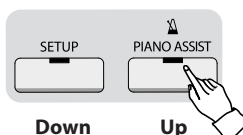
☞ Range: 000(Inactive), 030, 060, 120, 180, 240min. (Default: 000)
☞ The timer operates immediately, and the piano power is turned off at the set time.
☞ When the timer is not set, the current time is displayed as '000'.

Functions

This piano offers extensive utilities designed to allow adjusting the piano to suit either personal preferences of a user or a given performance condition.

Using SETUP

By using **SETUP** button, many diverse parameters of the piano may be set.

Press **SETUP** button once, it flashes and the LED shows 'F01'.
Navigate through the parameters (F01, F02, ..., rSt) by using **DATA** buttons.
Press ▶/■/**ENTER** button to enter a parameter and adjust its value with **DATA** buttons.
Press **SETUP** to quit setup mode and return to performance mode.

Function Menu
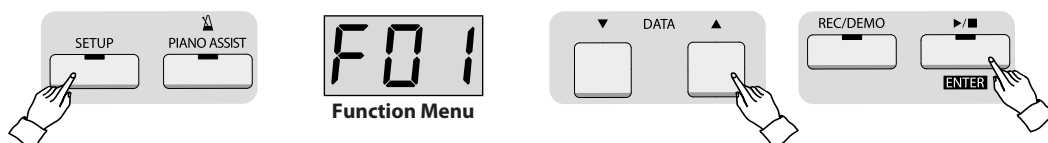
☞ The LED will show the current value.
☞ Pressing both **DATA** buttons simultaneously will restore the default value.
☞ If **DATA** buttons are not used for about 10 seconds, setup mode will be quitted automatically.
☞ Your last configurations will be retained until the piano is turned off.

Display	Function Name	Range	Default	Remarks
F01	Master Tune	415 ~ 465	440	
F02	Key Transpose	-12 ~ 00 ~ 12	00	
F03	Touch	OFF/1~9	6	
F04	Fixed Touch Velocity	020 ~ 127	080	
F05	Metronome Meter	0, 2 ~ 12	0	
F06	Metronome Volume	020 ~ 100	080	
F07	Main Voice Volume	000 ~ 100	100	
F08	Layer Voice Volume	000 ~ 100	070	
F09	Split Voice Volume	000 ~ 100	100	
F10	Split Point	C2 ~ C7	Gb3	
F11	Reverb Type	OFF/r-1/2/3/4/5/6/7/8/9	r-3	
F12	Reverb Volume	000 ~ 100	065	
F13	Effect Type	OFF/Chr/PhS/trE/rot	OFF	
F14	Effect Volume	000 ~ 100	080	Main Voice Only
F15	Strectch Tune	ON/OFF	ON	Piano Voice Only
F16	Hammer Sound Volume	000 ~ 100	030	Piano Voice Only
F17	String Resonance	000 ~ 100	060	Piano Voice Only
F18	Damper Resonance	000 ~ 100	080	Piano Voice Only
F19	Cabinet Resonance	ON/OFF	ON	Piano Voice Only
F20	Half Pedal	ON/OFF	ON	
F21	Piano Assist Mode	rhy/Pno	rhy	
F22	Multi-finger	ON/OFF	ON	
F23	Piano Assist Volume	000 ~ 100	070	
F24	Music Play Mode	ALL/reP/OFF	ALL	
F25	Music Volume	000 ~ 100	085	
F26	Music Transpose	-05 ~ 00 ~ 06	00	
F27	Bluetooth	ON/OFF	ON	
F28	Bluetooth Volume	000 ~ 020	010	
F29	AUX In Volume	000 ~ 020	010	
F30	MIDI Local Control	ON/OFF	ON	
F31	Auto Power Off	OFF/030/120/240	030	
rSt	Reset	Enter	-	

28

F01 Master Tune

Tune allows fine tuning of the piano by units of cents, which is useful when the piano is to be played alongside other acoustic instruments that are tune-sensitive.

☞ Range: 415 ~ 465Hz (Default: 440)
☞ Refer to page 28 for using the **SETUP** button.

F02 Key Transpose

This piano may be transposed up or down by units of semitones. It may be done to avoid having to change fingerings to accommodate playing with a singer or other instruments who are limited by their registers.

☞ Range: -12 ~ 00 ~ 12 (Default: 00)
☞ Refer to page 28 for using the **SETUP** button.

F03 Touch

The Touch parameter determines how responsive the volume of a note is to the speed of the player's keystroke. The piano offers 10 different Touch settings to suit different types of players.

Display	Settings	Description
1 2 3	Soft 1 Soft 2 Soft 3	**Soft** setting allows the player to produce large sound without necessarily using large forces, and are designed to suit players with less than ordinary finger strength.
4 5 6	Normal 1 Normal 2 Normal 3	**Normal** setting represents the responsiveness of ordinary acoustic pianos. **Default: 6(Normal3)**
7 8 9	Hard 1 Hard 2 Hard 3	**Hard** setting requires the player to play quite hard to produce loud sounds, and suits players with strong finger strength or desire more delicate control of soft melodies.
OFF	Fixed	Under this unique setting, all notes are pronounced equally regardless of the player's finger velocity.

☞ Refer to page 28 for using the **SETUP** button.

F04 Fixed Touch Velocity

When the Touch parameter is set to 'OFF', all notes played will have the same velocity regardless of how it is played. You may also set the constant volume level that you wish to use while using Fixed Velocity.

☞ Range: 020 ~ 127 (Default: 080)
☞ Refer to page 28 for using the **SETUP** button.

F05 Metronome Meter

The metronome may be set to emphasize the downbeats of a given meter.

☞ Range: 0, 2 ~ 12 (Default: 0=no meter)
☞ Refer to page 28 for using the **SETUP** button.
☞ Refer to page 16 for using metronome.

F06 Metronome Volume

The volume of the Metronome may be adjusted.

☞ Range: 020 ~ 100（Default: 080)
☞ Refer to page 28 for using the **SETUP** button.

F07 Main Voice Volume

By adjusting the main voice volume, the balance between volumes of different voices may be adjusted.

☞ Range: 000 ~ 100（Default: 100)
☞ Refer to page 28 for using the **SETUP** button.

F08 Layer Voice Volume

By adjusting the layer voice volume, the balance between volumes of different voices may be adjusted.

☞ Range: 000 ~ 100（Default: 070)
☞ Refer to page 28 for using the **SETUP** button.
☞ Refer to page 13 for using Layer.

F09 Split Voice Volume

By adjusting the split voice volume, the balance between volumes of different voices may be adjusted.

☞ Range: 000 ~ 100（Default: 100)
☞ Refer to page 28 for using the **SETUP** button.
☞ Refer to page 14 for using Split.

F10 Split Point

Split Point determines the point by which the keyboard is divided when using Split. The LED displays the octave and the pitch name of the selected key.

☞ Range: C2 ~ C7（Default: G♭3)
☞ Refer to page 28 for using the **SETUP** button.

F11 Reverb Type

You may choose from the 9 available Reverb types.

Display	OFF	r-1	r-2	r-3(default)	r-4	r-5	r-6	r-7	r-8	r-9
Type	Off	Room 1	Room 2	Room 3	Hall 1	Hall 2	Hall 3	Stage 1	Stage 2	Stage 3

☞ Refer to page 28 for using the **SETUP** button.

F12 Reverb Volume

The volume of the Reverb may be adjusted.

☞ Range: 000 ~ 100 (Default: 065)
☞ Refer to page 28 for using the **SETUP** button.

F13 Effect Type

You may choose from the 4 available Effect types.

Display	OFF(default)	Chr	PhS	trE	rot
Type	Off	Chorus	Phaser	Tremolo	Rotary

☞ The effect applies only to the main voice.
☞ Refer to page 28 for using the **SETUP** button.

F14 Effect Volume

The volume of the Effect may be adjusted.

☞ Range: 000 ~ 100 (Default: 080)
☞ Refer to page 28 for using the **SETUP** button.

F15 Stretch Tune

When tuning an acoustic piano, the low strings are tuned a bit lower than their original pitches, and the high strings higher, in order to accommodate the frequency difference of the harmonic series that occurs depending on the tension and stiffness of the strings, balancing the pitches of the overtones and preventing dissonance when playing multiple notes at once.

☞ Range: ON/OFF (Default : ON)
☞ If this function is disabled, it will be set to a flat tune that does not consider harmonics.
☞ Refer to page 28 for using the **SETUP** button.
☞ This function is applied when the main voice is set to the piano (G.P1 to G.P4).

F16 Hammer Sound Volume

The acoustic piano creates sound by striking its strings with hammers, which is called the hammer sound. This parameter controls the volume of the physical sound of hammers hitting the strings.

☞ Range: 000 ~ 100 (Default : 030)
☞ Refer to page 28 for using the **SETUP** button.
☞ This function is applied when the main voice is set to the piano (G.P1 to G.P4).

F17 String Resonance Volume

On acoustic pianos, when a key is played there are subtle interferences between sympathetic strings, which is a phenomenon commonly referred as the string resonance. The piano sound contains string resonance samples for advanced realism. This parameter determines the strength of such effect.

☞ Range: 000~100 (Default: 060)
☞ Refer to page 28 for using the **SETUP** button.
☞ This function is applied when the main voice is set to the piano (G.P1 to G.P4).

F18 Damper Resonance Volume

When playing an acoustic piano with the sustain pedal pressed, the open strings that are not being played also vibrate sympathetically since the dampers are off. This piano offers live samples of this sound of all open strings vibrating when a key is played with sustain pedal pressed. This parameter determines the volume of this effect.

☞ Range: 000 ~ 100 (Default : 080)
☞ Refer to page 28 for using the **SETUP** button.
☞ This function is applied when the main voice is set to the piano (G.P1 to G.P4).

F19 Cabinet Resonance

On an acoustic piano, there is a resonance sound that emanates from the cabinet of the piano body, and you can use this feature to set the resonance sound of the cabinet.

☞ Range: ON/OFF (Default : ON)
☞ Refer to page 28 for using the **SETUP** button.
☞ The cabinet resonance sound expresses the resonance sound of high notes (G6 ~ C8) without damper and the resonance sound transmitted from the piano frame.
☞ When using the reverb feature, the resonance sound of the cabinet does not occur. In other words, to use this function, you should turn off the reverb effect.
☞ This function is only applied when playing the main voice.
☞ This function is applied when the main voice is set to the piano (G.P1 to G.P4).

F20 Linear Damper

The Linear Damper feature, also commonly referred to as the Half Pedal, adjusts the duration of sustain depending on how deep the sustain pedal is pressed.

☞ Range: ON/OFF (Default : ON)
☞ Refer to page 10 for using pedals.
☞ Refer to page 28 for using the **SETUP** button.

F21 Piano Assist Mode

Accompaniment instrument for Piano Assist can be selected. There are two types: Drum and Piano.

☞ Range: rhy/Pno (Default: rhy=drum rhythm)
☞ Refer to page 28 for using the **SETUP** button.

F22 Multi-finger

You can select whether to use Multi-finger in the Piano Assist function. Multi-finger mode includes both Single Finger and Fingered mode . When Multi-finger is disabled, it changes to Fingered mode.

☞ Range: ON/OFF (Default: ON)
☞ Refer to page 28 for using the **SETUP** button.

F23 Piano Assist Volume

Piano Assist volume may be adjusted.

☞ Range: 000 ~ 100 (Default: 070)
☞ Refer to page 28 for using the **SETUP** button.

F24 Music Play Mode

You can play Demo music in succession (ALL), repeat playback of one song (reP), or cancel the repeat setting. When you turn off repeat (OFF), only the selected music will be played and then stopped.

☞ Range: ALL/rEP/OFF（Default: ALL）
☞ Refer to page 28 for using the **SETUP** button.

F25 Music Volume

The volume of Demo music may be adjusted.

☞ Range: 000 ~ 100（Default: 085）
☞ Refer to page 28 for using the **SETUP** button.

F24 Music Transpose

Music Transpose moves the pitch of the Demo music in semitone steps. Use this when changing the key of these files are required due to register issues of a singer or other instruments.

☞ Range: -05 ~ 00 ~ 06 (Default: 00)
☞ Refer to page 28 for using the **SETUP** button.

F27 Bluetooth®

 Bluetooth®

You can connect the piano with a Bluetooth enabled device. This piano supports both Bluetooth audio and Bluetooth MIDI. Bluetooth audio and Bluetooth MIDI are connected separately.

☞ Range: ON/OFF（Default: ON）
☞ Refer to page 28 for using the **SETUP** button.
☞ Bluetooth features may not be included depending on your location.

1 Connection (Bluetooth Audio)
The Bluetooth default setting is On, so it is ready to pair. Activate Bluetooth on the device you want to connect. Select the product name displayed in the list of connectable devices. When the connection is complete, you can hear the audio played on the device on the piano.

2 Connection (Bluetooth MIDI)
You can connect from applications that support Bluetooth MIDI. Set the piano's Bluetooth function to ON. Search for connectable devices in the application and select 'product name-BLE'.

☞ Make sure your application supports Bluetooth MIDI.
☞ Bluetooth performance may vary depending on the device type and OS version.
☞ If the product name is not displayed well at connection, delete it from the list of connected devices and reconnect it.
☞ A Bluetooth MIDI device is automatically connected to the last connected device when the piano is powered on. To connect to another device, disconnect it from the connected device.

3 Connection problem
* Make sure that the Bluetooth of the device is working properly.
* Audio: If the piano is not detected in the connectable device, turn off Bluetooth and turn it back on.
* MIDI: If you can not find the piano on the connectable device, turn off the Bluetooth setting and turn it on again or check that it is connected automatically with another device.

F28 Bluetooth Volume

Bluetooth audio volume may be adjusted.

☞ Range: 000 ~ 020 (Default: 010)
☞ Refer to page 28 for using the **SETUP** button.

F29 AUX in Volume

AUX in volume may be adjusted.

☞ Range: 000 ~ 020 (Default: 010)
☞ Refer to page 28 for using the **SETUP** button.

F30 MIDI Local Control

Intended for MIDI users, this setting is used mainly when connecting the piano to external devices like computers so as to use the piano as a MIDI input device. Setting Local Control to Off prevents the input data of the keyboard from being sent to the internal speaker system of the piano, thereby silencing it while the data is output as MIDI signals to any external devices connected to the piano.

☞ Range: ON/OFF (Default: ON)
☞ Refer to page 28 for using the **SETUP** button.

F31 Auto Power Off

The piano may be set to turn itself off if left unused for a set amount of time in order to conserve energy and ensure safety.

☞ Range: OFF/030/120/240 (Default: 030)
☞ The last adjusted value will persist even if the piano is turned off.
☞ Refer to Page 8 for more on APO.
☞ Refer to page 28 for using the **SETUP** button.

rSt Reset

Initializes ALL settings and parameters to their default values.
When you enter the **rSt** menu, **Ent** (Enter) displays on the screen. If you want to initialize, press ▶/■/
ENTER button. It is initialized immediately and returns to the initial screen. If you do not want to reset, press the **SETUP** button again to exit the setting.
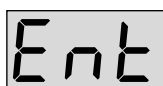
Enter
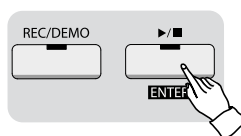
☞ Recording data will not be initialized.
☞ Refer to page 28 for using the **SETUP** button.

Memo

MIDI Chart

MIDI Implementation Chart

Function		Recognized	Transmitted	Remark
Basic Channel	Default	ALL	1-3	
Mode	Default	OMNI OFF, POLY	OMNI OFF, POLY	
Note ON/OFF	9nH kk vv	O	O	#kk:note ON (0-127)
				#vv:velocity (1-127)
Pitch Bender	EnH bi bh	O	O	Maximum swing +/- 1 tone
	00 BnH 00H cc	O	X	Bank Select
	01 BnH 01H cc	O	X	Modulation Wheel
	05 BnH 05H cc	O	X	Portamento Time
	06 BnH 06H cc	O	X	Data Entry
	07 BnH 07H cc	O	X	Volume
	10 BnH 0AH cc	O	X	Pan Out
	11 BnH 0BH cc	O	X	Expression
	64 BnH 40H cc	O	O	Damper Pedal
	65 BnH 41H cc	O	X	Portamento ON/OFF
	66 BnH 42H cc	O	O	Sostenuto Pedal
Control	67 BnH 43H cc	O	O	Soft Pedal
Change	80 BnH 80H vv	O	X	Reverb Prog.(vv=00H-70H)
	81 BnH 51H vv	O	X	Chorus Prog.
	91 BnH 5BH vv	O	O	Reverb Send Level
	93 BnH 5DH vv	O	O	Chorus Send Level
	120 BnH 78H 00H	O	X	All Sound Off
	121 BnH 79H 00H	O	X	Reset All Controller
	123 BnH 7BH 00H	O	X	All Notes Off
	126 BnH 7EH 00H	O	X	Mono On
	127 BnH 7FH 00H	O	X	Poly On
Program Change	CnH PP	O	O	Sounds/Drum Set List
System Exclusive	General MIDI Reset	X	X	

O : Yes,   X : No

GM Voice & Percussion

GM Voice(when connected to MIDI)

GM #	VOICE	GM #	VOICE
0 0 1	Grand Piano 1	0 6 5	Soprano Saxophone
0 0 2	Grand Piano 2	0 6 6	Alto Saxophone
0 0 3	Grand Piano 3	0 6 7	Tenor Saxophone
0 0 4	Honky Tonk	0 6 8	Baritone Saxophone
0 0 5	Electric Piano 1	0 6 9	Oboe
0 0 6	Electric Piano 2	0 7 0	English Horn
0 0 7	Harpsichord	0 7 1	Basson
0 0 8	Clavinet	0 7 2	Clarinet
0 0 9	Celesta	0 7 3	Piccolo
0 1 0	Glockenspiel	0 7 4	Flute
0 1 1	Music Box	0 7 5	Recorder
0 1 2	Vibraphone	0 7 6	Pan Flute
0 1 3	Marimba	0 7 7	Bottle Blow
0 1 4	Xylophone	0 7 8	Shakuhachi
0 1 5	Tubular Bell	0 7 9	Whistle
0 1 6	Dulcimer	0 8 0	Ocarina
0 1 7	Electric Organ 1	0 8 1	Square
0 1 8	Electric Organ 2	0 8 2	Sawtooth
0 1 9	Electric Organ 3	0 8 3	Calliope
0 2 0	Pipe Organ	0 8 4	Chiffer
0 2 1	Reed Organ	0 8 5	Charang
0 2 2	Accordion	0 8 6	Solo Vox
0 2 3	Harmonica	0 8 7	Fifths
0 2 4	Bandonion	0 8 8	Bass Lead
0 2 5	Nylon Guitar	0 8 9	Fantasia
0 2 6	Steel Guitar	0 9 0	Warm Pad
0 2 7	Jazz Guitar	0 9 1	Poly Synth
0 2 8	Clean Guitar	0 9 2	Space Vox
0 2 9	Muted Guitar	0 9 3	Bow Glass
0 3 0	Drive Guitar	0 9 4	Metal Pad
0 3 1	Lead Guitar	0 9 5	Halo Pad
0 3 2	Harmonic Guitar	0 9 6	Sweep Pad
0 3 3	Acoustic Bass	0 9 7	Ice Rain
0 3 4	Finger Bass	0 9 8	Sound Track
0 3 5	Pick Bass	0 9 9	Crystal
0 3 6	Fretless Bass	1 0 0	Atmosphere
0 3 7	Slap Bass 1	1 0 1	Brightness
0 3 8	Slap Bass 2	1 0 2	Goblin
0 3 9	Synth Bass 1	1 0 3	Echo Drop
0 4 0	Synth Bass 2	1 0 4	Star Theme
0 4 1	Violin	1 0 5	Sitar
0 4 2	Viola	1 0 6	Banjo
0 4 3	Cello	1 0 7	Shamishen
0 4 4	Contra Bass	1 0 8	Koto
0 4 5	Tremolo Strings	1 0 9	Kalimba
0 4 6	Pizzicato Strings	1 1 0	Bagpipe
0 4 7	Harp	1 1 1	Fiddle
0 4 8	Timpani	1 1 2	Shanai
0 4 9	Strings	1 1 3	Tinkle Bell
0 5 0	Slow Strings	1 1 4	Agogo
0 5 1	Synth Strings 1	1 1 5	Steel Drum
0 5 2	Synth Strings 2	1 1 6	Wood Block
0 5 3	Choir Aahs	1 1 7	Taiko
0 5 4	Voice Oohs	1 1 8	Melody Tom
0 5 5	Synth Voice	1 1 9	Synth Drum
0 5 6	Orchestra Hit	1 2 0	Reversed Cymbal
0 5 7	Trumpet	1 2 1	Guitar Noise
0 5 8	Trombone	1 2 2	Breath Noise
0 5 9	Tuba	1 2 3	Sea Shore
0 6 0	Muted Trumpet	1 2 4	Birds
0 6 1	French Horn	1 2 5	Telephone
0 6 2	Brass Section	1 2 6	Helicopter
0 6 3	Synth Brass 1	1 2 7	Applause
0 6 4	Synth Brass 2	1 2 8	Gunshot

Percussion

	Prog 59 SFX1 (S.EF)
21 - A0	Low
22 - A#0	Bass Drum
23 - B0	Snare Drum Left Hand
24 - C1	Snare Drum Right Hand
25 - C#1	Bongo
26 - D1	Guiro
27 - D#1	Conga
28 - E1	Whistle
29 - F1	Sogo
30 - F#1	Cymbal
31 - G1	Castanets
32 - G#1	Triangle
33 - A1	Maracas
34 - A#1	Tambourine
35 - B1	Low/High (Woodblock Low/High)
36 - C2	Double Low C
37 - C#2	Jingle
38 - D2	Rocket Fire
39 - D#2	Jing
40 - E2	One
41 - F2	Two
42 - F#2	Scoundrel's Laugh
43 - G2	Three
44 - G#2	Cricket
45 - A2	Four
46 - A#2	Fairy
47 - B2	Five
48 - C3	Low C
49 - C#3	Samul Janggu L-1
50 - D3	Claps
51 - D#3	Samul Janggu L-2
52 - E3	Claps
53 - F3	Short/Long
54 - F#3	Samul Janggu M
55 - G3	Soft/Loud
56 - G#3	Samul Janggu R-1
57 - A3	Good/Very Good
58 - A#3	Samul Janggu R-2
59 - B3	Table Clock
60 - C4	Middle C
61 - C#4	Cuckoo
62 - D4	Bird
63 - D#4	Whistle Bird
64 - E4	Hen/Cackling

	Prog 59 SFX1 (S.EF)
65 - F4	Chicks/Rooster
66 - F#4	Duck
67 - G4	Cat
68 - G#4	Dog
69 - A4	Goat
70 - A#4	Pig
71 - B4	Cow
72 - C5	High C
73 - C#5	Small Gong-1
74 - D5	Horse
75 - D#5	Small Gong-2
76 - E5	Horse Running
77 - F5	Frog/Frogs
78 - F#5	Splash
79 - G5	Swan+Bubble
80 - G#5	Comical Sound
81 - A5	Wolf
82 - A#5	Children's Laugh
83 - B5	Tiger
84 - C6	Double High C
85 - C#6	Samul Drum1
86 - D6	Bear
87 - D#6	Samul Drum2
88 - E6	Elephant
89 - F6	Bicycle
90 - F#6	Wall Clock+Pendulum
91 - G6	Bell
92 - G#6	Stream
93 - A6	Car
94 - A#6	Sea Waves/Waterfall
95 - B6	Train/Train+Whistle
96 - C7	Rain
97 - C#7	Forest
98 - D7	Wind
99 - D#7	Wind Chime
100 - E7	Thunder
101 - F7	Deep Sea
102 - F#7	The Sea
103 - G7	Bubble
104 - G#7	Fish Bubble
105 - A7	Robot
106 - A#7	Telephone
107 - B7	Helicopter/Siren
108 - C8	High

※ The MIDI key number of the leftmost key (A0) is 21.
※ The above percussion list can be used to select the 'S.EF' voice of the piano.
※ The two types of effect sounds are played differently depending on the velocity of the keyboard.
  Press the corresponding key lightly to play the left effect, press hard to play the right effect.

Percussion

	Prog 1 Standard Drum (dru)	Prog 9 Room Drum	Prog 17 Rock Drum (9-2)	Prog 25 Elec. Drum	Prog 26 Analog Drum
27 - D#1	High Q	High Q	High Q	High Q	High Q
28 - E1	Slap	Slap	Slap	Slap	Slap
29 - F1	Scratch Push	Scratch Push	Scratch Push	Scratch Push	Scratch Push
30 - F#1	Scratch Pull	Scratch Pull	Scratch Pull	Scratch Pull	Scratch Pull
31 - G1	Sticks	Sticks	Sticks	Sticks	Sticks
32 - G#1	Square Click	Square Click	Square Click	Square Click	Square Click
33 - A1	Metronome Click	Metronome Click	Metronome Click	Metronome Click	Metronome Click
34 - A#1	Metronome Bell	Metronome Bell	Metronome Bell	Metronome Bell	Metronome Bell
35 - B1	Kick Drum2	Power Kick1	Power Kick2	Power Kick1	Power Kick1
36 - C2	Kick Drum1	Room Kick	Power Kick1	Elec BD	808 Bass Drum
37 - C#2	Side Stick	Side Stick	Side Stick	Side Stick	808 Rim shot
38 - D2	Snare Drum1	Room SD1	Power Snare1	Elec SD1	808 Snare Drum
39 - D#2	Hand Clap	Hand Clap	Hand Clap	Hand Clap	Hand Clap
40 - E2	Snare Drum2	Room SD2	Power Snare2	Elec SD2	Room SD2
41 - F2	Low Floor Tom	Room Low Tom2	Room Low Tom2	Elec Low Tom2	808 Low Tom2
42 - F#2	Closed Hi-Hat [EXC1]	Closed Hi-Hat [EXC1]	Closed Hi-Hat [EXC1]	Closed Hi-Hat [EXC1]	808 CHH [EXC1]
43 - G2	High Floor Tom	Room Low Tom1	Room Low Tom1	Elec Low Tom1	808 Low Tom1
44 - G#2	Pedal Hi-Hat [EXC1]	Pedal Hi-Hat [EXC1]	Pedal Hi-Hat [EXC1]	Pedal Hi-Hat [EXC1]	808 PHH [EXC1]
45 - A2	Low Tom	Room Mid Tom2	Room Mid Tom2	Elec Mid Tom2	808 Mid Tom2
46 - A#2	Open Hi-Hat [EXC1]	Open Hi-Hat [EXC1]	Open Hi-Hat [EXC1]	Open Hi-Hat [EXC1]	808 OHH [EXC1]
47 - B2	Low-Mid Tom	Room Mid Tom1	Room Mid Tom1	Elec Mid Tom1	808 Mid Tom1
48 - C3	Hi Mid Tom	Room Hi Tom2	Room Hi Tom2	Elec Hi Tom2	808 Hi Tom2
49 - C#3	Crash Cymbal1	Crash Cymbal1	Crash Cymbal1	Crash Cymbal1	808 Cymbal
50 - D3	High Tom	Room Hi Tom1	Room Hi Tom1	Elec Hi Tom1	808 Hi Tom1
51 - D#3	Ride Cymbal1	Ride Cymbal1	Ride Cymbal1	Ride Cymbal1	Ride Cymbal1
52 - E3	Chinese Cymbal	Chinese Cymbal	Chinese Cymbal	Reverse Cymbal	Chinese Cymbal
53 - F3	Ride Bell	Ride Bell	Ride Bell	Ride Bell	Ride Bell
54 - F#3	Tambourine	Tambourine	Tambourine	Tambourine	Tambourine
55 - G3	Splash Cymbal	Splash Cymbal	Splash Cymbal	Splash Cymbal	Splash Cymbal
56 - G#3	Cowbell	Cowbell	Cowbell	Cowbell	808 Cowbell
57 - A3	Crash Cymbal2	Crash Cymbal2	Crash Cymbal2	Crash Cymbal2	Crash Cymbal2
58 - A#3	Vibraslap	Vibraslap	Vibraslap	Vibraslap	Vibraslap
59 - B3	Ride Cymbal2	Ride Cymbal2	Ride Cymbal2	Ride Cymbal2	Ride Cymbal2
60 - C4	High Bongo	High Bongo	High Bongo	High Bongo	High Bongo
61 - C#4	Low Bongo	Low Bongo	Low Bongo	Low Bongo	Low Bongo
62 - D4	Mute Hi Conga	Mute Hi Conga	Mute Hi Conga	Mute Hi Conga	808 High Conga
63 - D#4	Open Hi Conga	Open Hi Conga	Open Hi Conga	Open Hi Conga	808 Mid Conga
64 - E4	Low Conga	Low Conga	Low Conga	Low Conga	808 Low Conga
65 - F4	High Timbale	High Timbale	High Timbale	High Timbale	High Timbale
66 - F#4	Low Timbale	Low Timbale	Low Timbale	Low Timbale	Low Timbale
67 - G4	High Agogo	High Agogo	High Agogo	High Agogo	High Agogo
68 - G#4	Low Agogo	Low Agogo	Low Agogo	Low Agogo	Low Agogo
69 - A4	Cabasa	Cabasa	Cabasa	Cabasa	Cabasa
70 - A#4	Maracas	Maracas	Maracas	Maracas	808 Maracas
71 - B4	Short Whistle [EXC2]	Short Whistle [EXC2]	Short Whistle [EXC2]	Short Whistle [EXC2]	Short Whistle [EXC2]
72 - C5	Long Whistle [EXC2]	Long Whistle [EXC2]	Long Whistle [EXC2]	Long Whistle [EXC2]	Long Whistle [EXC2]
73 - C#5	Short Guiro [EXC3]	Short Guiro [EXC3]	Short Guiro [EXC3]	Short Guiro [EXC3]	Short Guiro [EXC3]
74 - D5	Long Guiro [EXC3]	Long Guiro [EXC3]	Long Guiro [EXC3]	Long Guiro [EXC3]	Long Guiro [EXC3]
75 - D#5	Claves	Claves	Claves	Claves	808 Claves
76 - E5	Hi Wood Block	Hi Wood Block	Hi Wood Block	Hi Wood Block	Hi Wood Block
77 - F5	Low Wood Block	Low Wood Block	Low Wood Block	Low Wood Block	Low Wood Block
78 - F#5	Mute Cuica [EXC4]	Mute Cuica [EXC4]	Mute Cuica [EXC4]	Mute Cuica [EXC4]	Mute Cuica [EXC4]
79 - G5	Open Cuica [EXC4]	Open Cuica [EXC4]	Open Cuica [EXC4]	Open Cuica [EXC4]	Open Cuica [EXC4]
80 - G#5	Mute Triangle [EXC5]	Mute Triangle [EXC5]	Mute Triangle [EXC5]	Mute Triangle [EXC5]	Mute Triangle [EXC5]
81 - A5	Open Triangle [EXC5]	Open Triangle [EXC5]	Open Triangle [EXC5]	Open Triangle [EXC5]	Open Triangle [EXC5]
82 - A#5	Shaker	Shaker	Shaker	Shaker	Shaker
83 - B5	Jingle Bell	Jingle Bell	Jingle Bell	Jingle Bell	Jingle Bell
84 - C6	Belltree	Belltree	Belltree	Belltree	Belltree
85 - C#6	Castanets	Castanets	Castanets	Castanets	Castanets
86 - D6	Mute Surdo [EXC6]	Mute Surdo [EXC6]	Mute Surdo [EXC6]	Mute Surdo [EXC6]	Mute Surdo [EXC6]
87 - D#6	Open Surdo [EXC6]	Open Surdo [EXC6]	Open Surdo [EXC6]	Open Surdo [EXC6]	Open Surdo [EXC6]
88 - E6					

※ All percussion voices except for Prog1 are available only through MIDI connections. The internal percussion kits of the piano does not include it.

	Prog 33 Jazz Drum	Prog 41 Brush Drum	Prog 49 Orchestra Drum	Prog 57 SFX2	비고
27 - D#1	High Q	High Q	Closed Hi-Hat [EXC1]		
28 - E1	Slap	Slap	Pedal Hi-Hat [EXC1]		
29 - F1	Scratch Push	Scratch Push	Open Hi-Hat [EXC1]		
30 - F#1	Scratch Pull	Scratch Pull	Ride Cymbal1		
31 - G1	Sticks	Sticks	Sticks		
32 - G#1	Square Click	Square Click	Square Click		
33 - A1	Metronome Click	Metronome Click	Metronome Click		
34 - A#1	Metronome Bell	Metronome Bell	Metronome Bell		
35 - B1	Jazz BD2	Jazz BD2	Concert BD2		
36 - C2	Jazz BD1	Jazz BD1	Concert BD1		
37 - C#2	Side Stick	Side Stick	Side Stick		
38 - D2	Room SD1	Brush Tap	Concert SD		
39 - D#2	Hand Clap	Brush Slap	Castanets	High Q	
40 - E2	Room SD2	Brush Swirl	Concert SD	Slap	
41 - F2	Low Floor Tom	Low Floor Tom	Timpani F	Scratch Push	
42 - F#2	Closed Hi-Hat [EXC1]	Closed Hi-Hat [EXC1]	Timpani F#	Scratch Pull	
43 - G2	High Floor Tom	High Floor Tom	Timpani G	Sticks	
44 - G#2	Pedal Hi-Hat [EXC1]	Pedal Hi-Hat [EXC1]	Timpani G#	Square Click	
45 - A2	Low Tom	Low Tom	Timpani A	Metronome Click	
46 - A#2	Open Hi-Hat [EXC1]	Open Hi-Hat [EXC1]	Timpani A#	Metronome Bell	
47 - B2	Low-Mid Tom	Low-Mid Tom	Timpani B	Guitar Slide	
48 - C3	Hi Mid Tom	Hi Mid Tom	Timpani c	Gt Cut Noise(dw)	
49 - C#3	Crash Cymbal1	Crash Cymbal1	Timpani c#	Gt Cut Noise (up)	
50 - D3	High Tom	High Tom	Timpani d	Double Bass Slap	
51 - D#3	Ride Cymbal1	Ride Cymbal1	Timpani d#	Key Click	
52 - E3	Chinese Cymbal	Chinese Cymbal	Timpani e	Laughing	
53 - F3	Ride Bell	Ride Bell	Timpani f	Screaming	
54 - F#3	Tambourine	Tambourine	Tambourine	Punch	
55 - G3	Splash Cymbal	Splash Cymbal	Splash Cymbal	Heart Beat	
56 - G#3	Cowbell	Cowbell	Cowbell	Footsteps1	
57 - A3	Crash Cymbal2	Crash Cymbal2	Concert Cymbal2	Footsteps2	
58 - A#3	Vibraslap	Vibraslap	Vibraslap	Applause	
59 - B3	Ride Cymbal2	Ride Cymbal2	Concert Cymbal1	Door Creaking	
60 - C4	High Bongo	High Bongo	High Bongo	Door Closing	
61 - C#4	Low Bongo	Low Bongo	Low Bongo	Scratch	
62 - D4	Mute Hi Conga	Mute Hi Conga	Mute Hi Conga	Wind Chime	
63 - D#4	Open Hi Conga	Open Hi Conga	Open Hi Conga	Car Engine Start	
64 - E4	Low Conga	Low Conga	Low Conga	Car Breaking	
65 - F4	High Timbale	High Timbale	High Timbale	Car Pass	
66 - F#4	Low Timbale	Low Timbale	Low Timbale	Car Crash	
67 - G4	High Agogo	High Agogo	High Agogo	Police Siren	
68 - G#4	Low Agogo	Low Agogo	Low Agogo	Train	
69 - A4	Cabasa	Cabasa	Cabasa	Jet Take-off	
70 - A#4	Maracas	Maracas	Maracas	Helicopter	
71 - B4	Short Whistle [EXC2]	Short Whistle [EXC2]	Short Whistle [EXC2]	Starship	
72 - C5	Long Whistle [EXC2]	Long Whistle [EXC2]	Long Whistle [EXC2]	Gun Shot	
73 - C#5	Short Guiro [EXC3]	Short Guiro [EXC3]	Short Guiro [EXC3]	Machine gun	
74 - D5	Long Guiro [EXC3]	Long Guiro [EXC3]	Long Guiro [EXC3]	Laser gun	
75 - D#5	Claves	Claves	Claves	Explosion	
76 - E5	Hi Wood Block	Hi Wood Block	Hi Wood Block	Dog	
77 - F5	Low Wood Block	Low Wood Block	Low Wood Block	Horse Gallop	
78 - F#5	Mute Cuica [EXC4]	Mute Cuica [EXC4]	Mute Cuica [EXC4]	Birds	
79 - G5	Open Cuica [EXC4]	Open Cuica [EXC4]	Open Cuica [EXC4]	Rain	
80 - G#5	Mute Triangle [EXC5]	Mute Triangle [EXC5]	Mute Triangle [EXC5]	Thunder	
81 - A5	Open Triangle [EXC5]	Open Triangle [EXC5]	Open Triangle [EXC5]	Wind	
82 - A#5	Shaker	Shaker	Shaker	Sea Shore	
83 - B5	Jingle Bell	Jingle Bell	Jingle Bell	Stream	
84 - C6	Belltree	Belltree	Belltree	Bubble	
85 - C#6	Castanets	Castanets	Castanets		
86 - D6	Mute Surdo [EXC6]	Mute Surdo [EXC6]	Mute Surdo [EXC6]		
87 - D#6	Open Surdo [EXC6]	Open Surdo [EXC6]	Open Surdo [EXC6]		
88 - E6			Applause		

Trouble shooting

If a problem occurs while using this product,
check the points listed below first prior to contacting customer service.

Problem	Cause	Solution
The piano does not turn on.	1) The power cord is not properly plugged. 2) The power switch is not pressed. (The button is lighted when it is pressed.) 3) Outlet is out of order.	1) Properly plug the power cord. 2) Press the power switch. 3) Try to plug the power cord of another home appliance into same electric outlet.
The speakers produce no sound when a key is played.	1) The master volume is set to minimum. 2) A headphone is connected. 3) The power connection jack of the power cord is not properly connected to the product.	1) Increase the master volume. 2) Disconnect the headphone. 3) Properly connect the power connection jack to the product.
There are notable difference between the volumes of the main voice and the secondary voice.	1) The secondary voice volume is set to a wrong value.	1) Set the secondary voice volume properly.
Random noise is heard when using the product.	1) Other electric products such as a refrigerator or an electric washer are operating nearby. 2) The vibration comes from some objects on the piano when playing the piano. 3) Noise is heard when using the headphone.	1) Move the product faraway from other electric products, particularly those that use motors. 2) Firmly secure items causing the vibration or move them to another place. 3) Make the headphone plug clean or replace the headphone.
No sound is heard when using the product connected to an external sound device.	1) The master volume is set to minimum. 2) The connecting cord is either cut or damaged. 3) Not connected in the right port.	1) Increase the master volume. 2) Replace the cord. 3) Make sure to properly connect into the right port.

Product Specifications

Keyboard	New RHA-3W
Touch	10 Levels (Soft 1/2/3, Normal 1/2/3, Hard 1/2/3, Off)
Maximum Polyphony	256
Voices	38 Voices, 1 Drum Set, 1 Effect Set
	(When connected to MIDI, GM128 Voices)
Features	Layer
	Split
	Twin Piano
DSP	9types of Reverb, 4 types of Effect
Demo	Classical Music: 50
Educational Music	Beyer/Czerny/Burgmüller etudes, selected Sonatines
Piano Assist	Drum Accompaniment: 40
	Piano Accompaniment: 20
Metronome	Yes (Tempo, Meter, Volume Adjustable)
Recording	Real-time recording
	2 Tracks X 3 Songs
	Maximum 27,000 notes (4,500 per track)
Bluetooth	Audio, MIDI
	(Bluetooth 5.0 Dual Mode, Class2)
BrainCare	Binaural Beats: 5
	White Noise: 10
	Healing Music: 10
Pedals	3(Soft, Sostenuto, Sustain)
Half Pedal	YES
Terminals	AUX in/out, USB TO HOST, Pedal
	2 Headphones(3.5mm, 6.35mm)
Speakers	(16cm × 8cm) × 2
	STEREO 25W + 25W
Power	AC Adapter
Consumer Power	66W
Accessories	Manual, AC Adapter

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