KAWAI

CN35
Owner's Manual

EN

Thank you for purchasing this Kawai CN35 digital piano.

This owner's manual contains important information regarding the usage and operation of the CN35 digital piano.

Please read all sections carefully, keeping this manual handy for future reference.

■ About this Owner's Manual

Before attempting to play this instrument, please read the **Introduction** section from page 10 of this owner's manual. This section explains the name and function of each part, how to connect the power cable, and how to turn on the power.

The **Playing the Piano** section (page 17) provides an overview of the instrument's commonly used functions, allowing the CN35 digital piano to be enjoyed almost immediately after being connected, while the **Internal Songs** section (page 36) includes information regarding the instrument's built-in lesson songs and Concert Magic function.

The **Recorder** section (page 46) provides instructions on how to record and play back pieces stored both in the instrument's internal memory, and also MP3/WAV audio files saved to a USB memory device. Additional functions to load and save songs and registration memories from/to USB devices are further explained in the **USB Functions** chapter (page 66). The **Settings** section (page 75) details the various options and settings that can be used to adjust the sound and operation of the instrument.

Finally, the **Appendix** section (page 116) includes stand assembly instructions and device connection information. This section also lists the instrument's internal sounds, demonstration songs, drum rhythms and drum sound maps, in addition to full technical specification details.

Important Safety Instructions

SAVE THESE INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

AVIS : RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR.

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT OPEN THE AC ADAPTOR.
NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lighting flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the leterature accompanying the product.

Examples of Picture Symbols

	denotes that care should be taken. The example instructs the user to take care not to allow fingers to be trapped.
	denotes a prohibited operation. The example instructs that disassembly of the product is prohibited.
	denotes an operation that should be carried out. The example instructs the user to remove the power cord plug from the AC outlet.

Read all the instructions before using the product.

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 prongs 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 object have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

4

WARNING - When using electric products, basic precautions should always be followed, including the following.

⚠️ **WARNING** Indicates a potential hazard that could result in death or serious injury if the product is handled incorrectly.

The product should be connected to an AC outlet of the specified voltage.

120V 230V 240V
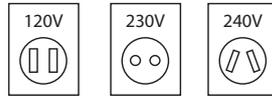
● If you are going to use an AC power cord, make sure that its has the correct plug shape and conforms to the specified power voltage.
● Failure to do so may result in fire.

Do not insert or disconnect the power cord plug with wet hands.

Doing so may cause electric shock.

Take care not to allow any foreign matter to enter the product.

⚠️
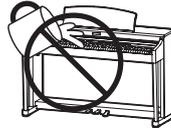
Entry of water, needles or hair pins may result in breakdown or short-circuit.
The product shall not be exposed to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the product.

The chair must be used properly (it must be used only when playing the product).

● Do not play with it or stand on it.
● Only one person is allowed to sit on it.
● Do not sit on it when opening the lid.
● Re-tighten the bolts occasionally.

Doing so may cause the chair to fall over or your fingers to be trapped, resulting in injury.

When using the headphones, do not listen for long periods of time at high volume levels.

Doing so may result in hearing problems.

Do not lean against the keyboard.

Doing so may cause the product to fall over, resulting in injury.

Do not disassemble, repair or modify the product.
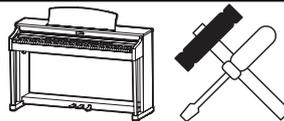
Doing so may result in product breakdown, electric shock or short-circuit.

When disconnecting the AC power cord's plug, always hold the plug and pull it to remove it.

● Pulling the AC power cord itself may damage the cord, causing a fire, electric shock or short-circuit.

The product is not completely disconnected from the power supply even when the power switch is turned off. If the product will not be used for a long time, unplug the AC power cord from the AC outlet.

● Failure to do so may cause fire in case of lightning.
● Failure to do so may over-heat the product, resulting in fire.

This product may be equipped with a polarized line plug (one blade wider than the other). This is a safety feature.
If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet.
Do not defeat the safety purpose of the plug.
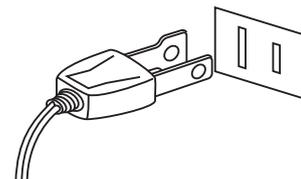
It is a good practice to have the instrument near the AC outlet and the power cord plug in a position so that it can readily be disconnected in an emergency because electricity is always charging while the plug is in the AC outlet even in a power switch off condition.

⚠ **CAUTION** Indicates a potential hazard that could result in injury or damage to the product or other property if the product is handled incorrectly.

Do not use the product in the following areas. ● **Areas, such as those near windows, where the product is exposed to direct sunlight** ● **Extremely hot areas, such as near a heater** ● **Extremely cold areas, such as outside** ● **Extremely humid areas** ● **Areas where a large amount of sand or dust is present** ● **Areas where the product is exposed to excessive vibrations**	Using the product in such areas may result in product breakdown. Use the product only in moderate climates (not in tropical climates).

Use only the AC adaptor included with this instrument to power the instrument.

● **Do not use other AC adaptors to power this instrument.**
● **Do not use the included AC adaptor or AC power cord to power other equipment.**

When you close the keyboard cover, close it gently.	Closing it roughly may trap your fingers, resulting in injury.
Before connecting cords, make sure that the power to this product and other devices is turned OFF.	Failure to do so may cause breakdown of this product and other devices.
Do not drag the product on the floor. Take care not to drop the product.	Please lift up the product when moving it. Please note that the product is heavy and must be carried by more than two persons. Dropping the product may result in breakdown.
Do not place the product near electrical appliances such as TVs and radios.	● Doing so may cause the product to generate noise. ● If the product generates noise, move the product sufficiently away from the electrical appliance or connect it to another AC outlet.
When connecting the AC power cord and other cords, take care not to get them tangled.	Failure to do so may damage them, resulting in fire, electric shock or short-circuit.
Do not wipe the product with benzene or thinner.	● Doing so may result in discoloration or deformation of the product. ● When cleaning the product, put a soft cloth in lukewarm water, squeeze it well, then wipe the product.
Do not stand on the product or exert excessive force.	● Doing so may cause the product to become deformed or fall over, resulting in breakdown or injury.
Do not place naked flame, such as lighted candles on the product.	Doing so may cause the illumination to fall over, resulting in fire.
Ensure that the ventilation is not impeded by covering the ventilation openings with items, such as newspaper, table-cloths, curtains, etc.	Failure to do so may over-heat the product, resulting in fire.
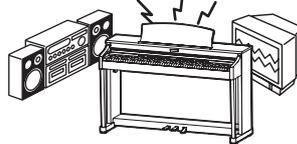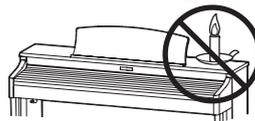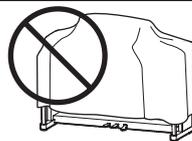
The product should be located so that its location or position does not interfere with its proper ventilation. Ensure a minimum distance of 5cm around the product for sufficient ventilation.

> **The product should be serviced by qualified service personnel when:**
>
> ● **The power supply cord or the plug has been damaged.**
> ● **Objects have fallen, or liquid has been spilled into the product.**
> ● **The product has been exposed to rain.**
> ● **The product does not appear to operate normally or exhibits a marked change in performance.**
> ●**The product has been dropped, or the enclosure damaged.**

Notes on Repair
Should an abnormality occur in the product, immediately turn the power OFF, disconnect the power cord plug, and then contact the shop from which the product was purchased.

CAUTION:
To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION:
Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

An information on Disposal for users
If your product is marked with this recycling symbol it means that, at the end of its life, you must dispose of it separately by taking it to an appropriate collection point.
You should not mix it with general household waste. Disposing of this product correctly will prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.
For further details, please contact your local authority.
(European Union only)

Instruction for AC power cord (U.K.)

IMPORTANT
THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

      BLUE :   NEUTRAL
      BROWN :   LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.
Do not plug either terminal of the power cord to the the ground od AC outlet on the wall.

FCC Information (U.S.A)

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

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 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.

Declaration of Conformity

Products :	Electronic Piano
Model Number :	CN35
Responsible Party Name :	Kawai America Corporation
Address :	2055 East University Drive Rancho
	Dominguez, CA 90220
Telephone	310-631-1771

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

    (1) this device may not cause harmful interference, and

    (2) this device must accept any interference received,

        including interference that may cause undesired operation.

The nameplate label is located on the underside of the instrument, as indicated below.

Nameplate
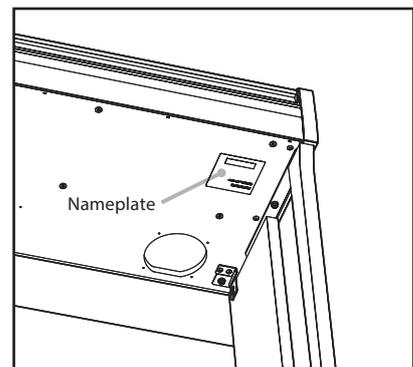
This applies only to products distributed by Kawai America Corporation.

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Playing the Piano

Lesson Function

Lesson Function (cont.)

Recorder

USB Functions

Settings

Settings (cont.)

Appendix

Welcome to the Kawai CN35

1 Feature Highlights

'Responsive Hammer III' weighted-key action, with Ivory Touch key surfaces and Let-off simulation

The new *Responsive Hammer III* (RHIII) action recreates the distinctive touch of an acoustic grand piano, with its realistic movement and accurate 3-sensor technology providing a smooth, natural, and highly responsive piano playing experience. The weight of the keyboard is appropriately graded to mirror the heavier bass hammers and lighter treble hammers of an acoustic piano, while structural reinforcements within the action assembly ensure greater stability during fortissimo and staccato passages.

The CN35 digital piano also features Kawai's *Ivory Touch* key surfaces that gently absorb finger moisture to assist the player's performance, while, let-off simulation recreates the subtle 'notch' sensation felt when softly playing the keys of a grand piano, satisfying the expectations of the most discerning pianists.

Progressive Harmonic Imaging (PHI) with 88-key piano sampling

The CN35 digital piano captures the beautiful sound of Kawai's highly acclaimed hand-built concert grand piano, with all 88 keys of this exceptional instrument meticulously recorded, analysed and faithfully reproduced using proprietary *Progressive Harmonic Imaging*™ technology. This unique process accurately recreates the broad dynamic range of the original grand piano, affording pianists an extraordinary level of expressiveness ranging from the softest pianissimo to the strongest, boldest fortissimo.

The instrument's built-in *Virtual Technician* feature allows various characteristics of the acoustic piano sound to be shaped at the touch of a button, with settings to adjust string and damper resonance. This personalised piano sound is further enhanced with atmospheric reverberation effects, delivering a rich, vibrant piano tone with breathtaking realism and authenticity.

USB to Device functionality, with MP3/WAV file recording and playback

The CN35 digital piano is equipped with USB connectors that not only allow the instrument to be connected to a computer for MIDI use, but also to load and save data to USB memory devices directly. This *USB to Device* feature allows registration memories and songs recorded and stored in internal memory to be saved to USB for posterity, or standard MIDI files (SMF) downloaded from the internet to be conveniently played back without additional hardware.

USB memory devices can also be used to play back MP3 or WAV audio files, allowing musicians to learn the chords or melody for a new piece, or to simply play along with their favourite songs. It is even possible to save performances as MP3 or WAV files for emailing to friends and family, listening to on a smartphone, or for further editing using an audio workstation.

Wide range of connectivity options

The CN35 digital piano features a variety of standard connectivity options, with Line-level output jacks that allow the instrument to be enjoyed in larger settings such as churches and schools. Standard MIDI and *USB to Host* connectors ensure flexibility when using computers and other electronic instruments.

2 Owner's Manual Conventions

This owner's manual utilises a number of illustrative conventions in order to explain the CN35's various functions. The examples below provide an overview of the button LED indicator states and press types, and the appearance of difference kinds of text.

■ Button LED indicator states

PIANO 1

PIANO 1

PIANO 1

LED indicator off:
Sound/Function is not selected.

LED indicator on:
Sound/Function is selected.

LED indicator flashing:
Sound/Function is selected in a temporary state.

■ Button press types

PIANO 1

PIANO 1

MENU ▲ ▼

Normal press:
Select a sound or function.

Press twice:
Select a sound or function.
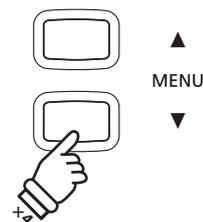
Press multiple times:
Cycle through sounds or settings.

EFFECTS   REVERB

PIANO 1 ➡ BASS
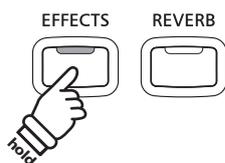
Press and hold:
Select a function's settings.
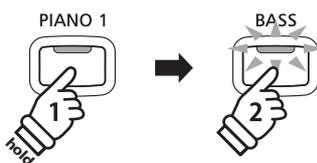
Press and hold, then press X:
Combine two sounds, or store registration memories etc.

■ Text appearance

Normal instruction and explanation text is written in regular type at 9 pt. size.

* Notes about functions are marked with an asterisk and written in 8 pt. size.

Reminders about previous operations are written in italic type at 9 pt. size.

```
LCD display text
looks like this.
```

← **Captions explaining the LCD display or button functions, are written in bold type at 8.5 pt. size.**

Example operations are written in italic type at 8 pt. size, and enclosed within a grey box.

Part Names and Functions

① MASTER VOLUME
MIN ＿ MAX

② CONCERT MAGIC

③ LESSON

└ DEMO ┘

④ REGIST-RATION

⑤ PIANO 1　PIANO 2　ELECTRIC PIANO　ORGAN　HARPSI & MALLETS　STRINGS　CHOIR & PAD　BASS　OTHERS
1　2　3　4　5　6　7　8　9

⑥ MENU ▲ ▼

⑦

⑧ VALUE ▲ ▼

⑨ EFFECTS　REVERB

⑩ BALANCE
LEFT ＿ RIGHT

⑪ SPLIT

⑫ — METRONOME —
TEMPO　BEAT
└ VOLUME ┘

⑬ RESET
|◄

REC
●

⑭ PLAY/STOP
►/■

— RECORDER —

⑮ REW
◄◄

FF
►►

⑯ LOOP
A↔B

⑰ USB

⑱ TOUCH

⑲ TRANSPOSE

midi2

⑳ POWER

KAWAI

PHONES ㉑

USB to DEVICE ㉒

㉓ LINE IN
L/MONO　R

㉔ LINE OUT
L/MONO　R

㉕ USB to HOST

㉖ MIDI
IN　OUT

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① **MASTER VOLUME slider**

This slider controls the master volume level of the instrument's built-in speakers or headphones, if connected.

* This slider does not affect the LINE OUT level. For information about adjusting the LINE OUT level, please refer to page 82.

② **CONCERT MAGIC button**

This button is used to select the instrument's Concert Magic function.

③ **LESSON button**

This button is used to select the instrument's built-in Lesson songs.

* When pressed simultaneously, the CONCERT MAGIC and LESSON buttons are also used to select the instrument's Demo mode.

④ **REGISTRATION button**

This button is used to store and recall one of the 18 different Registration memories. Each Registration can store sound, reverb/effects settings, and various other panel and menu options.

⑤ **SOUND buttons**

These buttons are used to select the sound(s) that will be heard when playing the instrument's keyboard. These buttons are also used to select Registration memories

⑥ **MENU buttons**

These buttons are used to navigate through the instrumnet's various function and settings menus.

⑦ **LCD display**

The LCD display provides important information relating to the currently selected sound, function, and setting.

* A protective plastic film is attached to the display during production. Please remove this film before attempting to play the instrument.

⑧ **VALUE buttons**

These buttons are used to adjust values, change settings, and answer on-screen prompts.

⑨ **EFFECTS and REVERB buttons**

These buttons are used to turn the instrument's reverb and effects functions on/off, and to adjust effect/reverb settings.

⑩ **BALANCE slider**

This slider adjusts the volume balance of the two layered sounds when Dual mode is selected, or the the upper and lower sections when Split/Four Hands mode is selected.

⑪ **SPLIT button**

This button is used to enable the Split/Four Hands mode functions, allowing the keyboard to be divided into upper and lower sections.

⑫ **METRONOME buttons**

These buttons are used to turn the instrument's metronome function on/off, and to adjust metronome settings.

⑬ **RESET button**

This button is used to reset the instrument's song recorder, and to rewind songs and MP3/WAV/SMF files to the beginning.

⑭ **REC and PLAY/STOP buttons**

These buttons are used to record and playback songs stored in the instrument's internal memory, or MP3/WAV/SMF files saved to a USB memory device.

⑮ **REW and FF buttons**

These buttons are used to move the playing position of the current recorder song or MP3/WAV/SMF backward or forward. These buttons are also used to select the recorder song.

⑯ **LOOP button**

This button is used to enable the instrument's A-B Loop function, allowing passages of a recorder song or MP3/WAV/SMF file to be played back repeatedly.

⑰ **USB button**

This button is used to access the instrument's USB functions.

⑱ **TOUCH button**

This button is used to access the instrument's Touch settings to adjust the touch sensitivity of the keyboard.

⑲ **TRANSPOSE button**

This button is used to adjust the pitch of the keyboard in semitone steps.

⑳ **POWER switch**

This switch is used to turn the instrument on/off.

* The CN35 digital piano features a power saving mode that can turn off the instrument automatically after a specified period of inactivity. For more information, please refer to the Auto Power Off setting on page 115.

㉑ **PHONES jacks**

These jacks are used to connect stereo headphones to the instrument. Two pairs of headphones can be connected and used simultaneously.

㉒ **USB to Device port**

This port is used to connect a FAT or FAT32 formatted USB memory device to the instrument in order to load/save recorded song data, registration memories, and MP3/WAV/SMF files etc.

㉓ **LINE IN jacks**

These jacks are used to connect the stereo output from audio equipment, computers, or other electronic instruments to the instrument's amplifier and speakers.

㉔ **LINE OUT jacks**

These jacks are used to connect the stereo output (Left/Right 1/4" phone plug) of the instrument to external amplifiers, mixers, recording devices, and similar equipment.

㉕ **USB to Host port**

This port is use to connect the instrument to a computer using a USB 'B to A' type cable in order to send and receive MIDI data.

㉖ **MIDI jacks**

The jacks are used to connect the instrument to external MIDI devices (such as other musical instruments or a computer) in order to send and receive MIDI data.

Setting Up the Piano

1. Connecting the power adaptor

Connect the AC power adaptor to the DC IN terminal located on the underside of the instrument, as indicated right.
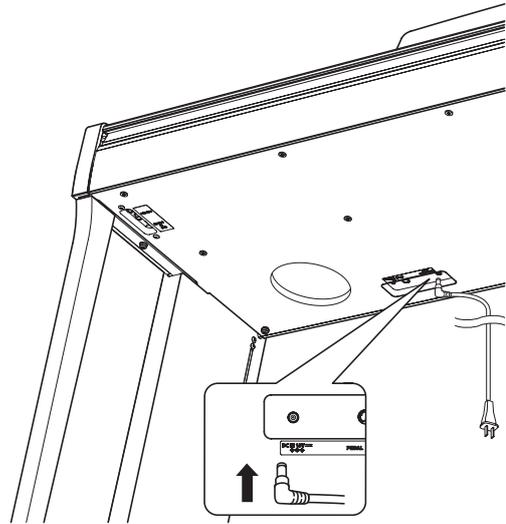
2. Connecting the power adaptor to an outlet

Connect the AC power adaptor to an AC outlet.
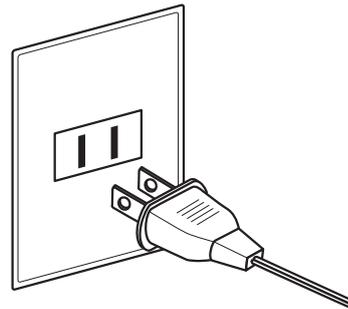
3. Turning on the power

Press the POWER SWITCH located on the right hand side of the front panel.

The instrument will turn on, and the words 'Concert Grand' will be shown in the LCD display, indicating that the Concert Grand sound is selected, and the instrument is ready to be played.

* The CN35 digital piano features a power saving mode that can turn off the instrument automatically after a specified period of inactivity. For more information, please refer to the 'Auto Power Off' setting on page 115.
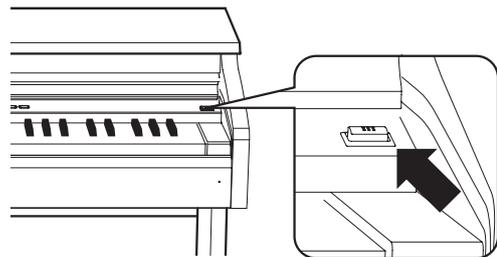
4. Adjusting the volume

The MASTER VOLUME slider controls the volume level of the instrument's speakers, or headphones if connected.

Move the slider to the right to increase the volume, and to the left to decrease the volume.

Use this slider to set the volume to a comfortable listening level - the middle is often a good starting point.

* This slider does not affect the LINE OUT level. For information about adjusting the LINE OUT level, please refer to page 82.

MASTER VOLUME

Decrease volume

Increase volume

MIN   MAX
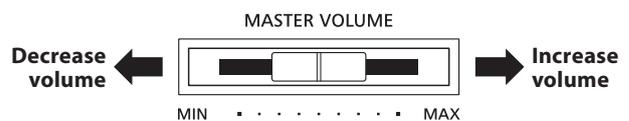
∎ Using headphones

Use the jacks located beneath the keyboard on the left hand side, to connect stereo headphones to the CN35 digital piano.

Two pairs of headphones can be connected and used simultaneously. When a pair of headphones is connected, sound will not be produced by the speakers.
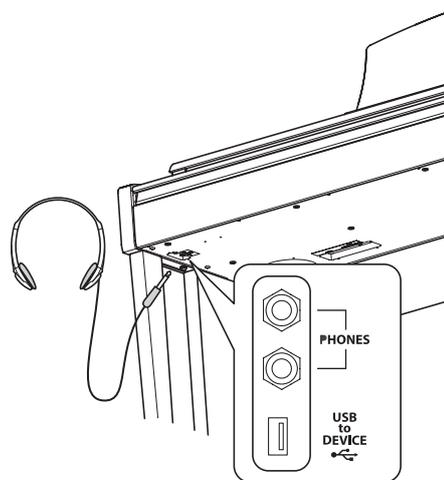
∎ Attaching the headphone hook (optional)

A headphone hook is included with the CN35 digital piano and can be used to hang headphones when not in use.

If desired, attach the headphone hook to the underside of the keyboard as shown in the illustration right.
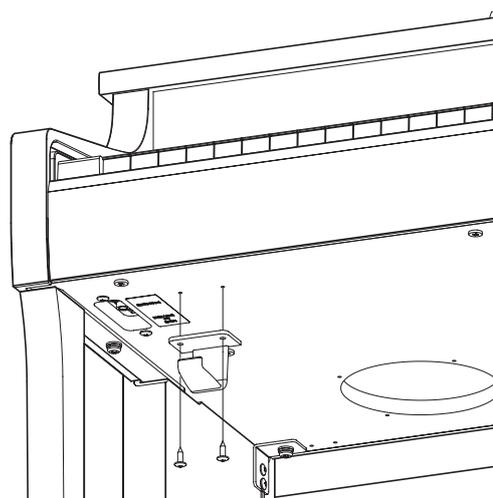
Using the Pedals

As with a grand piano, the CN35 digital piano features three pedals: sustain, sostenuto, and soft.

■ Sustain pedal (right pedal)

Depressing this pedal sustains the sound after one's hands have been lifted from the keyboard - greatly enriching the piano sound, while also assisting smooth 'legato' passages.

The sustain pedal is capable of responding to half pedaling.

Soft pedal

Sostenuto pedal

Sustain pedal
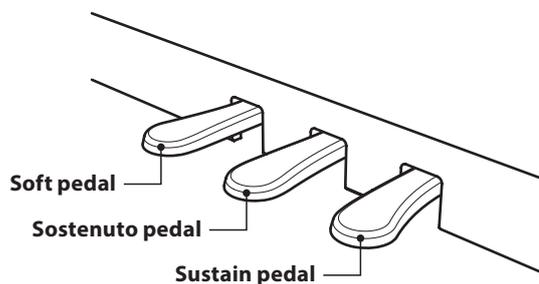
■ Soft pedal (left pedal)

Depressing this pedal softens the sound, reducing its volume.

When the rotary speaker effect is selected, the soft pedal is also used to alternate the speed of the rotary simulation between 'Slow' and 'Fast' effect modes.

■ Sostenuto pedal (centre pedal)

Depressing this pedal after playing the keyboard and before releasing the keys, sustains the sound of only those notes that have been played. Any keys that are subsequently played after the sostenuto pedal is depressed will not be sustained.

■ Pedal support bolt

A pedal support bolt is attached at the base of the pedal board to aid stability when the pedals are pushed.

Turn the bolt anti-clockwise until it makes contact with the floor and supports the pedals firmly. If the pedal support bolt does not make contact with the floor, the pedal board may become damaged.
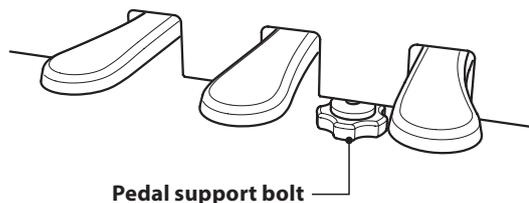
Pedal support bolt

⚠ **When moving the instrument, always adjust or remove the pedal support bolt, then readjust when the instrument is in its new position.**

■ Caring for the pedals

If the surface of the pedals becomes dirty, clean the pedals using a dry dish-washing sponge.
Do not attempt to clean the pedals using rust-removing solvents, abrasives or files.

■ Grand Feel pedal system

The CN35 digital piano features the Grand Feel pedal system, which replicates the sustain, soft, and sostenuto pedal weighting of Kawai's EX Concert Grand piano.

Selecting Sounds

Sounds are arranged into nine categories, with multiple sounds assigned to each category button. For a complete listing of the available instrument sounds, please refer to page 125 of this owner's manual.

By default, the 'Concert Grand' sound will be selected automatically when the instrument is turned on.

* The OTHERS button is assigned with 300 sounds, divided into 20 additional categories.

■ Sound categories and variations

PIANO 1	
1	Concert Grand
2	Studio Grand
3	Mellow Grand
4	Modern Piano

PIANO 2	
1	Concert Grand2
2	Studio Grand2
3	Mellow Grand2
4	Rock Piano

ELECTRIC PIANO	
1	Classic E.P.
2	Modern E. P.
3	60's E.P.
4	Modern E. P. 2

ORGAN			
1	Jazz Organ	5	Church Organ
2	Blues Organ	6	Diapason
3	Ballad Organ	7	Full Ensemble
4	Gospel Organ	8	Diapason Oct.

HARPSI & MALLETS	
1	Harpsichord
2	Harpsichord 2
3	Vibraphone
4	Clavi

STRINGS	
1	Slow Strings
2	String Pad
3	Warm Strings
4	String Ensemble

CHOIR & PAD	
1	Choir
2	Choir 2
3	New Age
4	Atmosphere

BASS	
1	Wood Bass
2	Electric Bass
3	Fretless Bass
4	W. Bass & Ride

OTHERS
300 sounds

1. Selecting a sound category

Press the desired SOUND button.

The LED indicator for the button will turn on to indicate that this category has been selected, and the name of the sound will be shown in the LCD display.

```
Classic E.P.
```
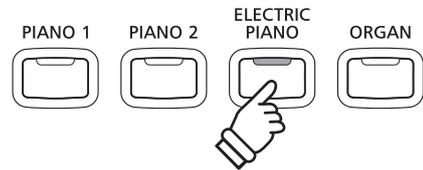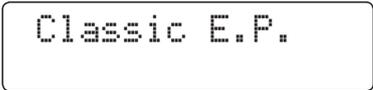

Example: To select the ELECTRIC PIANO category, press the ELECTRIC PIANO button.

2. Changing the selected sound variation

Several sound variations are assigned to each category button.

Press a SOUND button repeatedly to cycle through the different sound variations.

```
Concert Grand2
```
↓
```
Mellow Grand2
```
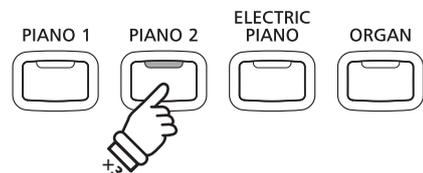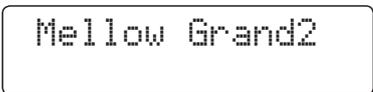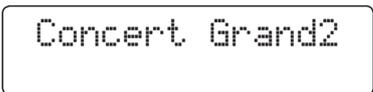

Example: To select the 'Mellow Grand2' sound, press the PIANO 2 button three times.

The ▼ or ▲ VALUE buttons can also be used to select sounds, and cycle through the different sound variations.

* While holding down one of the VALUE buttons, pressing the other VALUE button will jump to the next sound category within the OTHERS selection.

17

Demo Songs

The Demo function provides an excellent introduction to the varied capabilities of the CN35 digital piano.

There are 32 different demonstration songs available, highlighting the instrument's rich selection of high quality sounds, and powerful speaker system.

For a complete listing of the available demonstration songs, please refer to page 124 of this owner's manual.

* Kawai regrets that sheet music for Kawai original demo songs is not available.

1. Entering demo mode

Press the CONCERT MAGIC and LESSON buttons simultaneously.

The LED indicators for both buttons will turn on and the SOUND buttons will start to flash.
The demo song for the PIANO 1 category will start. After the PIANO 1 demo songs have finished playing, the demo songs for another sound category will be selected at random.

```
      Demo
  Concert Grand
```
└── **Demo song name**
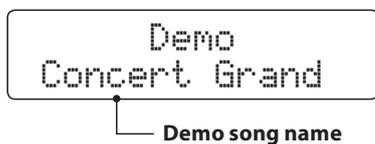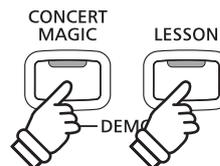
* There are 4 songs stored for the PIANO 1 sound, which will be played in order. Pressing the PIANO 1 button repeatedly will select the next piano song.

2. Selecting a demo song

While Demo mode is selected and the demo songs are playing:

Press the desired SOUND button.

The LED indicator for the button will start to flash, and the first demo in the selected sound category will start to play.

Press the selected sound category button repeatedly to cycle through the different demo songs in that category.

```
      Demo
  Modern Piano
```

The ▼ or ▲ VALUE buttons can also be used to cycle through all of the different demo songs.
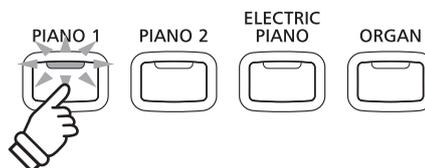
Example: To select the Modern Piano demo song, press the PIANO 1 button three times.

3. Stopping the demo song and exiting demo mode

While Demo mode is selected and the demo songs are playing.

Press the CONCERT MAGIC or LESSON button.

The LED indicators will stop flashing, the demo songs will stop playing, and the instrument will return to normal playing mode.
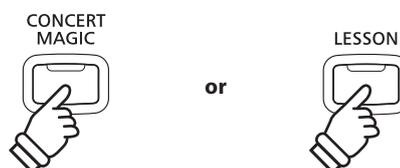
Dual Mode

The Dual Mode function allows two sounds to be layered together, creating a more complex sound. For example, a piano sound layered with strings, or a church organ combined with a choir, etc.

1. Entering Dual mode

Press and hold a SOUND button to select the main sound, then press another SOUND button to select the layered sound.

The LED indicators for both SOUND buttons will turn on to indicate that Dual mode is in use, and the respective sound names will be shown in the LCD display.

Main sound
```
Concert Grand
Slow Strings
```
Layered sound
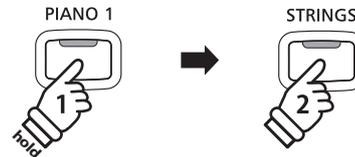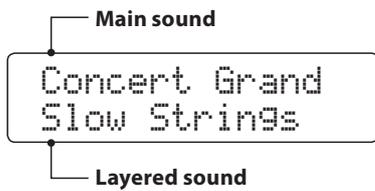
PIANO 1 ➡ **STRINGS**

Example: To layer the 'Slow Strings' sound with the 'Concert Grand' sound, press and hold the PIANO 1 button, then press the STRINGS button.

2. Changing the main/layered sounds

To select a different variation for the layered sound:

Press and hold the main SOUND button, then press the layered SOUND button repeatedly to cycle through the different sound variations.

```
Concert Grand
String Ensemble
```
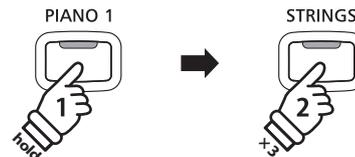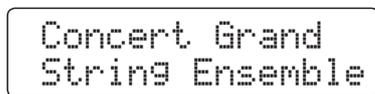
PIANO 1 ➡ **STRINGS**

Example: To change the layered 'Slow Strings' sound to the 'String Ensemble' sound, press and hold the PIANO 1 button, then press the STRINGS button three times.

To select a different variation for the main sound:

Press and hold the layered SOUND button, then press the main SOUND button repeatedly to cycle through the different sound variations.

```
Mellow Grand
String Ensemble
```
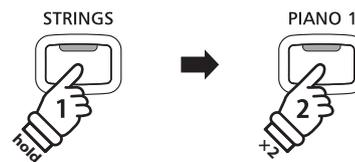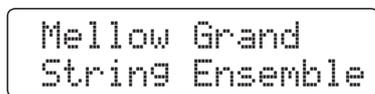
STRINGS ➡ **PIANO 1**

Example: To change the main 'Concert Grand' sound to the 'Mellow Grand' sound, press and hold the STRINGS button, then press the PIANO 1 button twice.

To layer two variations assigned to the same SOUND button:

Press and hold a SOUND button, then press the ▼ or ▲ VALUE buttons to select the layered sound variation.

```
Classic E.P.
60's E.P.
```

* Preferred Dual mode sound combinations can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

ELECTRIC PIANO ➡ **VALUE ▲ ▼**
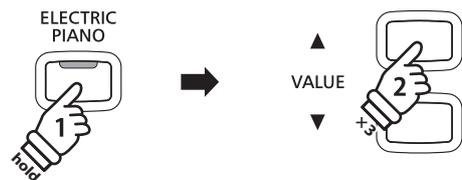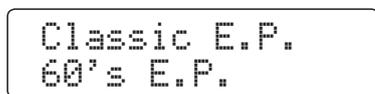
Example: To layer the 'Classic E.P.' and '60's E.Piano' sounds together, press and hold the ELECTRIC PIANO button, then press the VALUE ▲ button three times.

Dual Mode

3. Adjusting the main/layered sound volume balance

While Dual mode is in use:

Use the BALANCE slider to adjust the volume balance between the two sounds.

As the volume of the main sound increases, the volume of the layered sound decreases, and vice versa.

Increase layered sound volume ← BALANCE → **Increase main sound volume**

LEFT · · · · · RIGHT

* The preferred Dual mode volume balance can also be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

* The Layer Octave Shift setting can be used to adjust the octave range of the layered sound. Please refer to page 113 for more information.

* The Layer Dynamics setting can be used to adjust the dynamic sensitivity of the layered sound. Please refer to page 114 for more information.
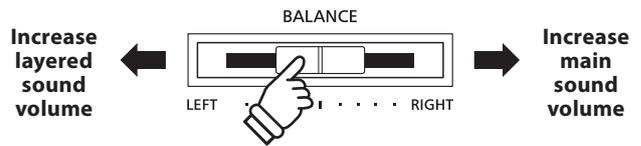
4. Exiting Dual mode

While Dual mode is in use:

Press a single SOUND button.

The LED indicator for the button will turn on, the name of the selected sound will be shown in the LCD display, and the instrument will return to normal (single voice mode) operation.

PIANO 1   PIANO 2   ELECTRIC PIANO   ORGAN
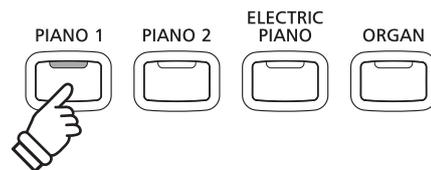
```
Concert Grand
```

Split Mode

The Split Mode function divides the keyboard into two sections, allowing each section to be played with a different sound. For example, a bass sound in the lower section, and a piano sound in the upper section.

1. Entering Split mode

Press the SPLIT button.

The LED indicator for the SPLIT button will turn on to indicate that Split mode is in use.

* The default split point is set between keys B3 and C4.

The LED indicator for the upper section sound button will turn on, and the LED indicator for the lower section sound button will start to flash. The respective sound names will also be shown in the LCD display.

Upper section sound

```
Concert Grand
/Wood Bass
```

Split enabled

Lower section sound
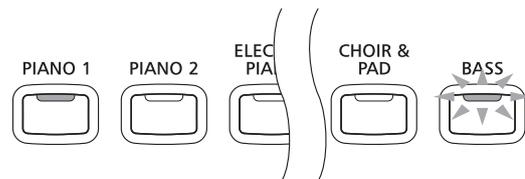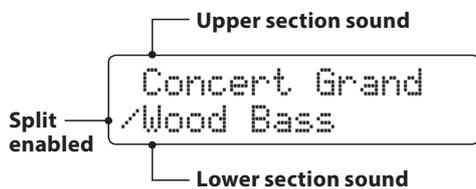
Default Split mode:
The previously selected sound is used for the upper section, and the 'Wood Bass' sound is selected for the lower section.

2. Changing the upper/lower section sounds

To select a different sound for the upper section:

Press the desired SOUND button.

```
Blues Organ
/Wood Bass
```
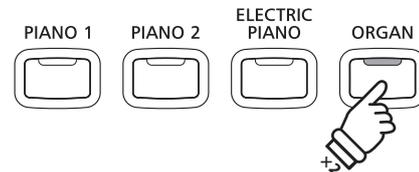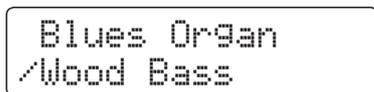
Example: *To select the 'Blues Organ' sound for the upper section, press the ORGAN button twice.*

To select a different sound for the lower section:

Press and hold the SPLIT button, then press the desired SOUND button.

```
Blues Organ
/W.Bass & Ride
```
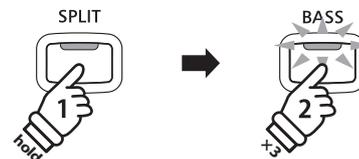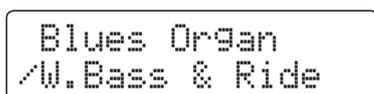
Example: *To select the 'W. Bass & Ride' sound for the lower section, press and hold the SPLIT button, then press the BASS button three times.*

* The Lower Octave Shift setting can be used to adjust the octave range of the lower section. Please refer to page 111 for more information.

* The Lower Pedal setting can be used to enable/disable the damper pedal for the lower section. Please refer to page 112 for more information.

* Preferred Split mode upper/lower sound combinations can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

3. Changing the split point

Press and hold the SPLIT button, then press the desired split key on the keyboard.

The name of the pressed key will briefly be shown in the LCD display, and will become the new split point.

```
Split Point
= F4
```

Example: To set the split point to key F4, press and hold the SPLIT button, then press the F4 key.
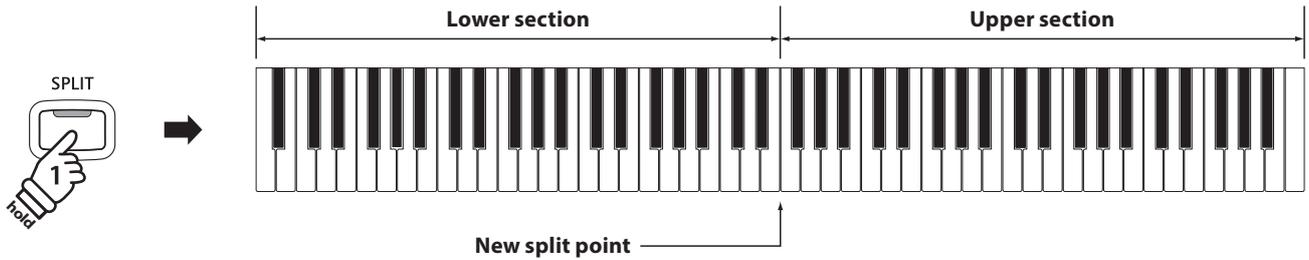
Lower section | **Upper section**

SPLIT

New split point

4. Adjusting the upper/lower sound volume balance

Use the BALANCE slider to adjust the volume balance between the upper and lower sections.
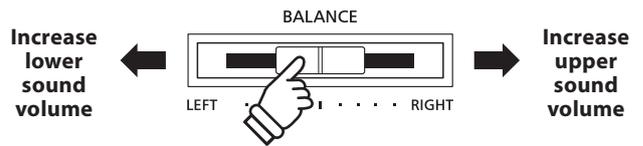
As the volume of the upper sound increases, the volume of the lower sound decreases, and vice versa.

* The preferred Split mode upper/lower volume balance can also be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

BALANCE

Increase lower sound volume ← | → **Increase upper sound volume**

LEFT · · · · · · RIGHT

5. Exiting Split mode

While Split mode is in use:

Press the SPLIT button.

The LED indicator for the SPLIT button will turn off, and the instrument will return to normal (full keyboard) operation.

SPLIT

```
Jazz Organ
```
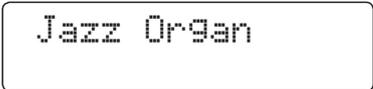
Four Hands Mode

The Four Hands Mode function divides the keyboard into two sections in a similar way to that of the Split Mode function. However, with Four Hands Mode enabled, the octave/pitch of each section is automatically adjusted to create two separate 44-key instruments with the same playing range. This function is intended to allow two people to practise together or perform piano duets using a single instrument.

1. Entering Four Hands mode

Press and hold the SPLIT button, then press the sustain (right) pedal and the soft (left) pedal together.

* It is also possible to activate Four Hands mode by using the Four Hands setting in the Bassic Settings menu. Please refer to the instructions on page 86 for more information.

The LED indicator for the SPLIT button will start to flash to indicate that Four Hands mode is in use.

* The default four hands mode split point is set between keys E4 and F4.

The LED indicator for the PIANO 1 button will turn on, and the 'Concert Grand' sound will automatically be selected for both the upper and lower sections.

```
          ┌─ Upper section sound

          Concert Grand
          /Concert Grand
Four ───┘
Hands
enabled   └─ Lower section sound
```

SPLIT

Press the pedals

PIANO 1
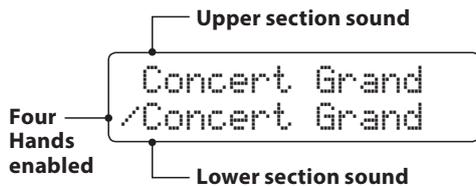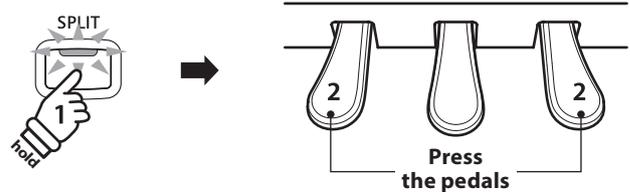
Default Four Hands mode:
The 'Concert Grand' sound is selected for both the upper and lower sections.

2. Changing the upper/lower section sounds

To select a different sound for the upper section:

Press the desired SOUND button.

```
Classic E.P.
/Concert Grand
```

PIANO 1   PIANO 2   ELECTRIC PIANO   ORGAN
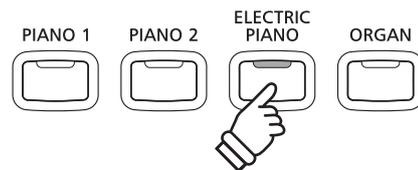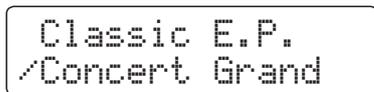
Example: To select the 'Classic E.P.' sound for the upper section, press the ELECTRIC PIANO button.

To select a different sound for the lower section:

Press and hold the SPLIT button, then press the desired SOUND button.

```
Classic E.P.
/Studio Grand2
```

* Preferred Four Hands mode upper/lower sound combinations can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.
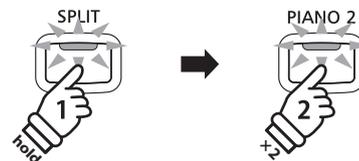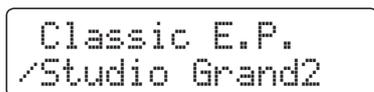
SPLIT   PIANO 2

Example: To select the 'Studio Grand2' sound for the lower section, press and hold the SPLIT button, then press the PIANO 2 button twice.

3. Changing the Four Hands mode split point

Press and hold the SPLIT button, then press the desired split key on the keyboard.

The name of the pressed key will briefly be shown in the LCD display, and will become the new Four Hands mode split point.

```
Split Point
= C5
```

Example: To set the split point to key C5, press and hold the SPLIT button, then press the C5 key.
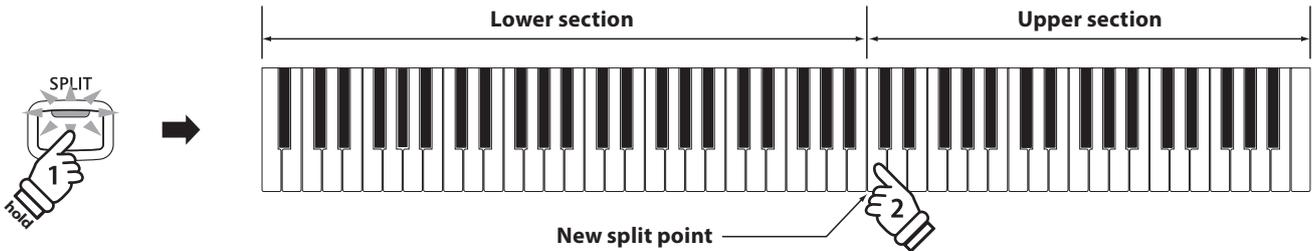
Lower section   **Upper section**

New split point

4. Adjusting the upper/lower sound volume balance

Use the BALANCE slider to adjust the volume balance between the upper and lower sections.

As the volume of the upper sound increases, the volume of the lower sound decreases, and vice versa.

* The preferred Four Hands mode upper/lower volume balance can also be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

BALANCE

Increase lower sound volume

Increase upper sound volume

LEFT   RIGHT
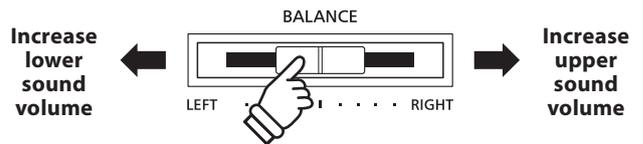
5. Exiting Four Hands mode

While Four Hands mode is in use:

Press the SPLIT button.

The LED indicator for the SPLIT button will stop flashing, and the instrument will return to normal (full keyboard) operation.

SPLIT

```
Classic E.P.
```

Enhancing the Sound

The CN35 digital piano offers a variety of features to adjust and enhance the character of a particular sound. Some of these features (e.g. Reverb), are enabled automatically when a sound is selected, however players may also wish to change or type of enhancement to suit their personal preferences or different styles of music.

1 Reverb

Reverb adds reverberation to the sound, simulating the acoustic environment of a recital room, stage, or concert hall. Some sound types, such as acoustic piano, enable reverb automatically in order to improve acoustic realism. The CN35 digital piano features six different reverb types.

■Reverb types

Reverb type	Description
Room	Simulates the ambiance of a small rehearsal room.
Lounge	Simulates the ambience of piano lounge.
Small Hall	Simulates the ambiance of a small hall.
Concert Hall	Simulates the ambiance of a concert hall or theater.
Live Hall	Simulates the ambiance of a live hall or stage.
Cathedral	Simulates the ambiance of a large cathedral.

1. Turning Reverb on/off

Press the REVERB button to turn reverb on/off.

The LED indicator for the REVERB button will turn on to indicate when reverb is in use, and the current status will briefly be shown in the LCD display.

```
Room            On
```
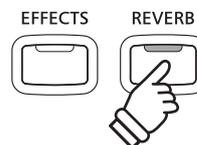
2. Changing the Reverb type

Press and hold the REVERB button.

The reverb type screen will be shown in the LCD display.

```
Reverb Type
= Room
```
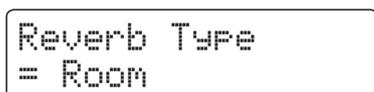
Press the ▼ or ▲ VALUE buttons to cycle through the different reverb types.

To exit the reverb type screen and return to normal playing mode, press the REVERB button.

* Reverb type is independent for each sound variation.

* Any changes made to the reverb type, or on/off status will remain until the power is turned off.

* Preferred reverb settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.
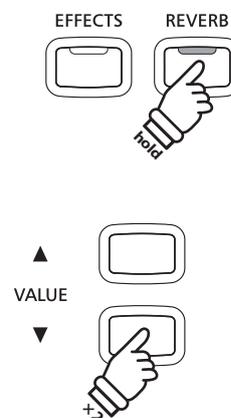
Example: To change the reverb type from 'Room' to 'Small Hall', press the VALUE ▼ button twice.

2 Effects

In addition to reverb, various other effects can be applied to the selected sound, altering the tonal character and feeling of the instrument. As with reverb, some sound types enable certain effects automatically in order to enhance tonal quality. The CN35 digital piano features thirteen different effect types.

■ Effect types

Effect type	Description
Chorus	Layers a slightly detuned version of sound over the original, thus enriching its tonal character.
Classic Chorus	Similar in principle to Chorus, but intended for vintage electric piano sounds.
Stereo Delay	Add an echo effect to the sound, playing through both speakers (stereo) simultaneously.
Ping Delay	Adds a 'ping pong' echo effect to the sound, giving the impression that is 'bouncing' from left to right.
Triple Delay	Similar in principle to Ping Delay, but with an additional centre echo.
Tremolo	Continuously varies the volume at a constant speed, adding a vibrato type effect to the sound.
Classic Tremolo	Similar in principle to Tremolo, but intended for vintage electric piano sounds.
Phaser	Applies a cyclic phase change to the sound, giving the impression that the sound is moving.
Rotary 1/2/3	Simulates the sound of a rotary speaker commonly used with vintage electronic organs. * The soft pedal can be used to alternate the speed of the rotary simulation between 'Slow' and 'Fast' effect modes.
Phaser + Amp	Phaser with a vintage electric piano speaker effect applied.
Auto Pan + Amp	Alternates the sound output from left to right across the stereo field using a sine wave with vintage electric piano speaker effect applied.

1. Turning Effects on/off

Press the EFFECTS button to turn effects on/off.

The LED indicator for the EFFECTS button will turn on to indicate when effects are in use, and the current status will briefly be shown in the LCD display.


```
Chorus          On
```
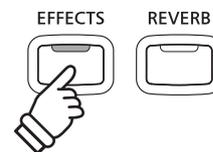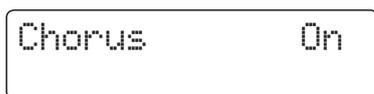
2. Changing the Effects type menu

Press and hold the EFFECTS button.

The effect type screen will be shown in the LCD display.

```
Effect Type
= Chorus
```
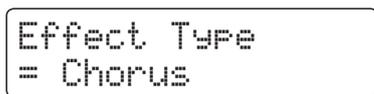
Press the ▼ or ▲ VALUE buttons to cycle through the different effect types.

To exit the effects type screen and return to normal playing mode, press the EFFECTS button.

* Effect type is independent for each sound variation.

* Any changes made to the effect type, or on/off status will remain until the power is turned off.

* Preferred effects settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.
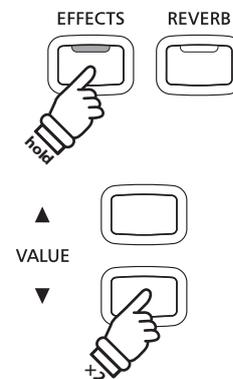
Example: To change the effect type from 'Chorus' to 'Stereo Delay', press the VALUE ▼ button twice.

Touch

As with an acoustic piano, the CN35 digital piano produces a louder sound when the keys are struck with force, and a softer sound when the keys are played gently. The volume and tonal character change in relation to the strength and speed of playing – on a digital piano this system is referred to as 'touch sensitivity'.

The Touch Curve setting allows the touch sensitivity of the keyboard to be conveniently adjusted. There are six different preset touch curve settings available, with two additional 'User' settings allowing performers to customise the instrument's responsiveness to suit their individual playing style.

■ Touch Curve types

Touch Curve	Description
Light +	Requires less striking force to achieve a forte note. For players with a very delicate touch.
Light	A louder volume is produced even when playing with a soft touch. For those still developing finger strength. * This touch curve is recommended for children and organ players.
Normal (default)	Reproduces the standard touch sensitivity of an acoustic piano. * This touch curve is used when the Touch function is turned off.
Heavy	Requires a heavier touch to produce a loud volume. Ideally suited to those with stronger fingers.
Heavy +	Requires considerably more striking force to achieve a loud volume.
Off (constant)	A constant volume is produced regardless of how hard the keys are struck. * This touch curve intended for playing sounds of instruments that have a fixed dynamic range (e.g. organ and harpsichord).
User 1 / User 2	A custom touch curve, created to suit an individual's personal playing style.

■ Touch Curve graph

The illustration below provides a visual representation of the different Touch Curve settings.
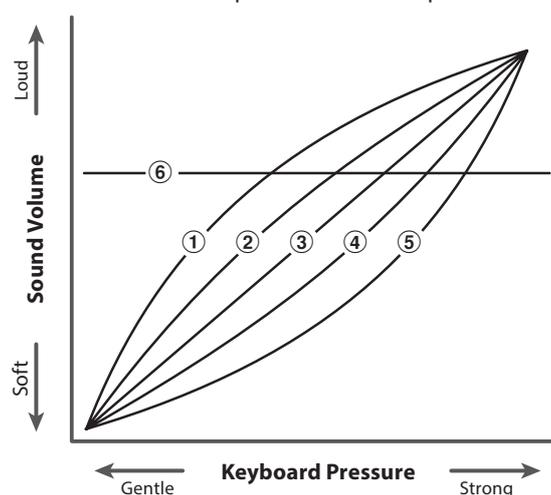
①	Light +
②	Light
③	Normal (default)
④	Heavy
⑤	Heavy +
⑥	Off (constant)

■ Changing from the standard (Normal) Touch Setting

Press the TOUCH button.

The LED indicator for the TOUCH button will turn on, indicating that the Touch function is in use, and that the piano is using a touch setting other than the standard 'Normal' type.

■ Selecting the touch sensitivity

Press and hold the TOUCH button, then press the ▼ or ▲ VALUE buttons.

The selected touch curve will be shown in the LCD display.

```
Touch
= Light
```
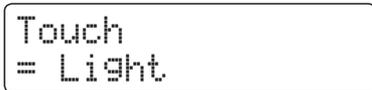
Press the TOUCH button again to return to the standard (Normal) touch setting.
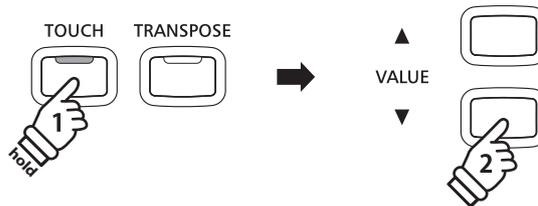
* The touch setting is global for all of the preset sounds. It is not possible to specify individual touch settings for each preset sound.

* Any changes made to the Touch settings will remain until the power is turned off.

* Preferred Touch settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

* LIGHT and HEAVY do not represent the physical weight of the keys. These are settings that affect the sensitivity of the keys, which determines the volume level in response to the key movement.

Creating a User Touch Curve

1. Entering User Touch Curve creation mode

After selecting a Touch Curve User1 or User2.

Press the REC button.

A message will be shown, prompting for the keyboard to be played.

```
Touch
= User2→PressREC
```

```
Start Playing
Soft → Loud
```
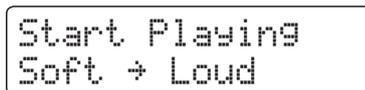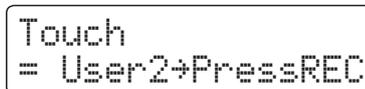
2. Creating the User Touch Curve

Play the piano dynamically from very soft to very loud, allowing the instrument to examine the personal playing technique.

* More than one attempt may be required in order to create an accurate User Touch Curve.

* Moving the master volume fader to the lowest position before creating the User Touch Curve may help to reduce user distractions, thus improving accuracy.

Press the PLAY/STOP button.

The new User Touch Curve will be stored to the 'User1' or 'User2' touch types, and selected automatically.

```
Press PLAY/STOP
When finished
```

```
Touch analysis
complete.
```

Playing the Piano
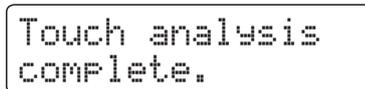
Panel Lock

The Panel Lock function allows the state of all panel buttons to be temporarily locked, preventing sounds and other settings from being changed. This function may prove useful in teaching environments, ensuring that students are not distracted by changing sounds etc.

1. Activating the Panel Lock

Press the CONCERT MAGIC and TRANSPOSE buttons simultaneously.

The Panel Lock screen will be shown in the LCD display, and the instrument will stop responding to panel button presses.

```
Panel Lock
      On
```
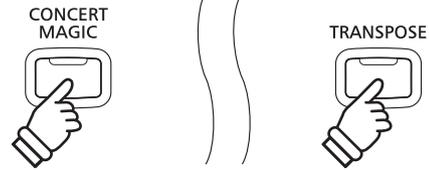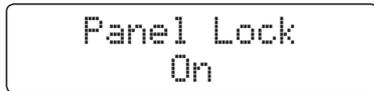
If panel buttons are pressed while the Panel Lock is activated, a reminder message will briefly be shown in the LCD display.

```
Press [C.Magic]
and [Transpose]
```
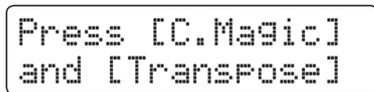
* The Panel Lock will remain activated even after the instrument's power is turned off.

2. Deactivating the Panel Lock

Press the CONCERT MAGIC and TRANSPOSE buttons simultaneously again.

A message will be shown in the LCD display to indicate that the Panel Lock has been deactivated, and the instrument will resume responding to panel button presses as normal.

```
Panel Lock
      Off
```
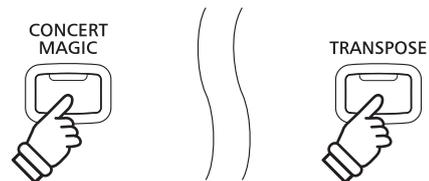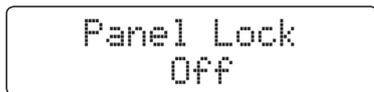
Transpose

The Transpose function allows the pitch of the CN35 digital piano's keyboard to be raised or lowered in semi-tone intervals. This is particularly useful when accompanying instruments tuned for different keys, or when a song learned in one key must be played in another key.

■ Adjusting the Key Transpose value: Method 1

Press and hold the TRANSPOSE button, then press the ▼ or ▲ VALUE buttons to adjust the key transpose value.

The LED indicator for the TRANSPOSE button will turn on to indicate that the transpose function is in use, and the key transpose value will briefly be shown in the LCD display.

```
Key Transpose
=  0  (C)
```

```
Key Transpose
= +4  (E)
```
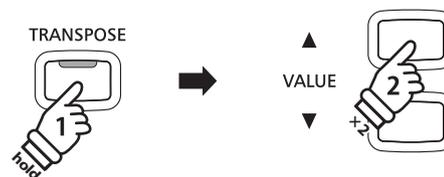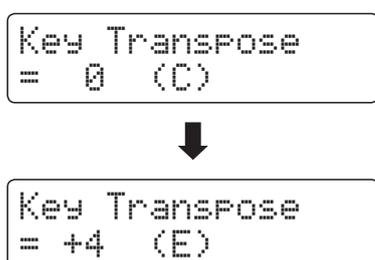
Example: To increase the key transpose value from 0 (off) to +4 (i.e. raise the keyboard pitch by 4 semi-tones), press and hold the TRANSPOSE button, then press the VALUE ▲ button four times.
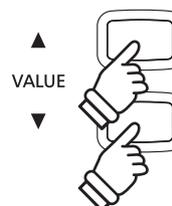
* The keyboard pitch can be raised or lowered by up to 12 semi-tones.

* To reset the key transpose value to 0, press and hold the TRANSPOSE button, then press the ▼ and ▲ VALUE buttons simultaneously.

■ Adjusting the Key Transpose value: Method 2

Press and hold the TRANSPOSE button, then press a key within the range of C3 to C5.

The LED indicator for the TRANSPOSE button will turn on to indicate that the transpose function is in use, and the key transpose value will briefly be shown in the LCD display.

```
Key Transpose
=  0  (C)
```

```
Key Transpose
= -3  (A)
```
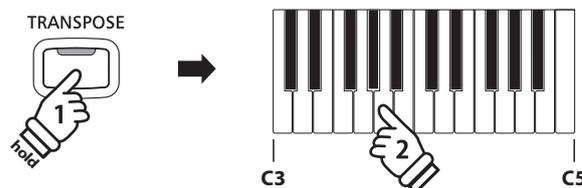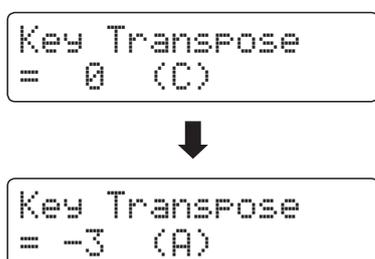
Example: To change the key transpose from C (off) to A (i.e. lower the keyboard pitch by three semi-tones), press and hold the TRANSPOSE button, then press the A key.

* The keyboard pitch can be adjusted within the range of C3 to C5.

■ Turning Key Transpose on/off

Press the TRANSPOSE button to turn the key transpose function on/off.

* The specified key transpose setting will be retained even after the ke transpose function is turned off. This allows the key transpose function to be turned on and off freely, without the need to adjust the value each time.

* The specified key transpose setting will return to the default value of 0 after the power is turned off.

* Preferred key transpose settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

Using the Song Transpose function it is also possible to transpose recorder songs stored in internal memory, and SMF song files stored on a USB memory device. This allows the pitch of the song to be adjusted without affecting the pitch of the keyboard.

■Selecting the Song Transpose/Key Transpose settings

Press and hold the TRANSPOSE button, then press the ▼ or ▲ MENU buttons to alternate between the key transpose and song transpose settings.
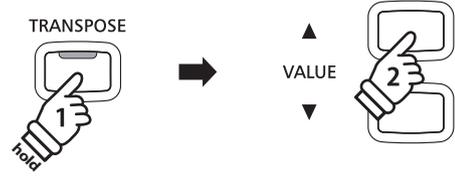
■Adjusting the Song Transpose value

While the Song Transpose screen is shown in the LCD display:

Press the ▼ or ▲ VALUE buttons to adjust the song transpose value.

```
Song Transpose
=  0  (C)
```

⬇

```
Song Transpose
= +2  (D)
```

* The song pitch can be raised or lowered by up to 12 semi-tones.

* To reset the song transpose value to 0, press the ▼ and ▲ VALUE buttons simultaneously.

* The song transpose value will automatically reset to 0 when a different song is selected.

Example: To increase the song transpose value from 0 (off) to +2 (i.e. raise the song pitch by 2 semi-tones), press and hold the TRANSPOSE button, then press the VALUE ▲ button twice.

Metronome / Drum Rhythms

The Metronome function provides a steady beat to aid practicing the piano at a consistent tempo. In addition to regular metronome beats, the CN35 digital piano also features a variety of drum rhythms to accompany most playing styles and musical genres.

For a complete listing of available drum rhythms, please refer to page 37 of this owner's manual.

■ Turning the Metronome on/off

Press the TEMPO button.

The LED indicator for the TEMPO button will turn on to indicate that the metronome function is in use, and a 4/4 beat will start to count.

The current metronome tempo in beats per minute (BPM) will be shown in the LCD display.

Metronome tempo

```
Tempo        ♩=120
●○○○
```

Current beat
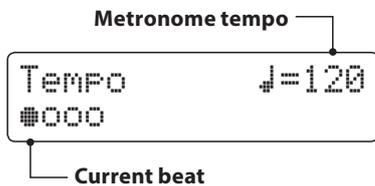
Press the ▼ or ▲ VALUE buttons to increase or decrease the tempo within the range of 10 - 400 beats per minute. (20-800 BPM with eighth note rhythms).

Press the TEMPO button again to stop the metronome. The LED indicator for the TEMPO button will turn off.
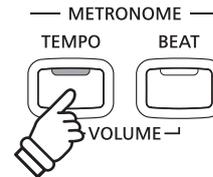
■ Changing the time signature and rhythm

Press the BEAT button.

The LED indicator for the BEAT button will turn on and the metronome will begin counting.

The currently selected time signature and a visual indicator of each beat will be shown in the LCD display.

If a rhythm is selected, the currently selected rhythm name will be shown in the LCD display.

```
Beat       4/4       8 Beat 1
●○○○                 ●○○○
```
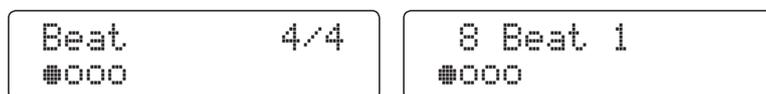
Press the ▼ or ▲ VALUE buttons to select the desired time signature / rhythm.

* There are ten different times signatures available :
  1/4, 2/4, 3/4, 4/4, 5/4, 3/8, 6/8, 7/8, 9/8 and 12/8.

Alternatively, one of the 100 built-in rhythm styles can be used instead of a simple metronome click.

Press the BEAT button again to stop the metronome.

Both the TEMPO button and the BEAT button can be used to turn the metronome on and off, depending on whether the tempo or time signature is being adjusted.
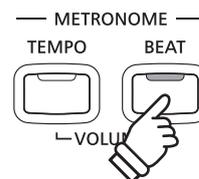
■ Adjusting the Metronome volume

To adjust the metronome volume:

Press the TEMPO and BEAT buttons simultaneously.

The volume level of the metronome will be shown in the LCD screen.

Press the ▼ or ▲ VALUE buttons to adjust the value of the metronome volume.

```
Volume        5
oooo
```

⬇

```
Volume       10
oooo
```
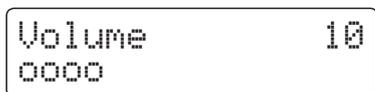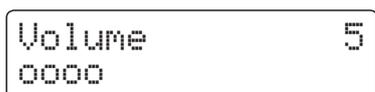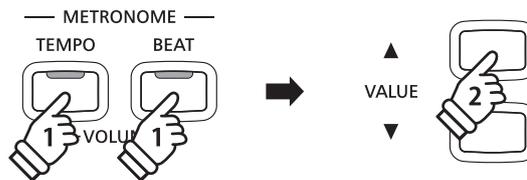
* The metronome volume can be adjusted within the range of 0 - 10.

* Any changes made to the metronome tempo, beat, or volume settings settings will remain until the power is turned off.

* Preferred metronome settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

■ Changing sounds while the Metronome is in use

Press the desired SOUND button.

The LED indicator for the button will turn on to indicate that this category has been selected.

The name of the sound will briefly be shown in the LCD display, before returning to the metronome screen.

```
Classic E.P.
```

⬇

```
Tempo      ♩= 90
●●●○
```
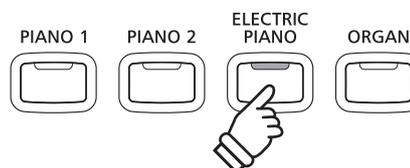
Example: To select the 'Classic E.P.' sound, press the ELECTRIC PIANO button.
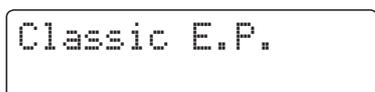
■ Jump to Recorder shortcut

While the Metronome function is in use:

Press the REC button.

The Recorder standby screen will be shown in the LCD display, and the metronome will stop to count. A one bar count-in will also be played before the recording begins.

* Please refer to page 46 for more information about the instrument's Recorder functions.
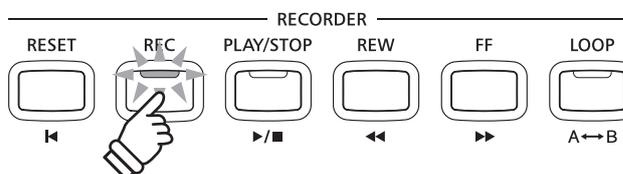
Registration Memories

The Registration function allows the current instrument setup (sound selection, all settings, etc.) to be stored to a registration memory, and conveniently recalled at the touch of a button. There are 18 different registration memories available, with two memories ('A' and 'B') assigned to each SOUND button.

Registrations can also be loaded from/saved to USB memory devices. Please refer to page 68 for more information.

■ Settings stored in Registration memories

General		Settings	
Selected sound		Basic Settings*	
Dual Mode / Split Mode (sounds, volume balance, split point)		Virtual Technician	
Reverb, Effects, Touch, Transpose (Key Transpose only)		Key Settings	
Metronome (Beat, Tempo, Volume)		MIDI Settings	

* Speaker Volume, Phones Volume, Line Out Volume, Audio Recorder Gain, and Power Settings will not be stored to Registration memories.

■ Selecting a Registration memory

Press the REGISTRATION button.

The LED indicator for the REGISTRATION button will turn on to indicate that the registration function is in use, and the registration selection screen will be shown in the LCD display.

```
Concert Grand
```
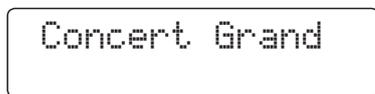
Press the SOUND buttons to select the desired registration memory.

```
Registration 4▯
```
⬇
```
▯ Jazz Organ
 /Fretless Bass
```
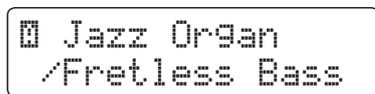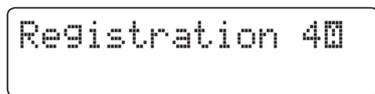
Press the same SOUND button repeatedly to alternate between the 'A' and 'B' memories.

Alternatively, press the ▼ or ▲ VALUE buttons to cycle through all 18 different registration memories.
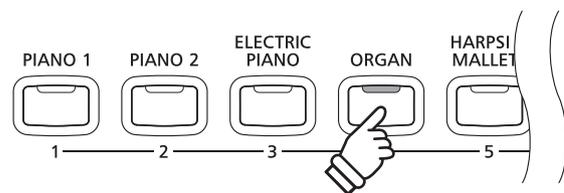
■ Exiting Registration mode (restore previous settings)

To return to normal playing mode without selecting the registration (i.e. restore the previous panel settings):

Press the REGISTRATION button.

The LED indicator for the REGISTRATION button will turn off, and the instrument will return to normal playing mode.

REGIST-
RATION

PIANO 1 PIANO 2 ELECTRIC PIANO ORGAN HARPSI MALLET

1 —— 2 —— 3 —— 5

VALUE

REGIST-
RATION

Playing the Piano

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■ Exiting Registration mode (retain new settings)

To return to normal playing mode with the current registration memory settings selected:

Press the ▼ and ▲ MENU buttons simultaneously.

The LED indicator for the REGISTRATION button will turn off, and the instrument will return to normal playing mode.
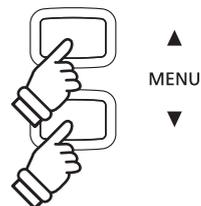
■ Storing a Registration memory

To store a registration memory:

Press and hold the REGISTRATION button, then press and hold a SOUND button.

The current instrument setup will be stored to the registration memory assigned to the pressed SOUND button, and a confirmation message will briefly be shown in the LCD display.

```
Registration 6A
        Stored
```
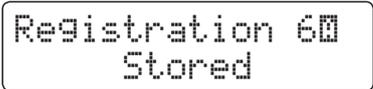
Press the selected SOUND button once, then press and hold the same button to alternate between the 'A' and 'B' memories.
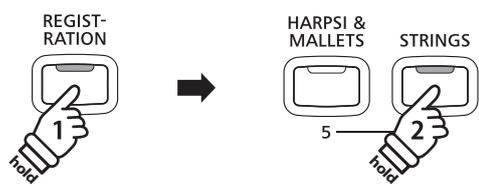
Example: To store the current instrument setup to memory 6A, press and hold the REGISTRATION button, then press the STRINGS button.

■ Resetting all Registration memories

Press and hold the LESSON and REGISTRATION buttons, then turn the instrument's power off/on.

All registration memories will be reset to the factory default settings.
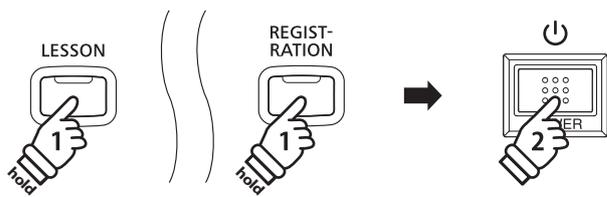
Playing the Piano

Lesson Function

The Lesson function allows budding pianists to practice the piano using a selection of built-in song books. The left and right hand parts for each piece can be practiced separately, while adjusting the tempo allows difficult passages to be perfected.

For a complete listing of available Lesson Function songs, please refer to the separate 'Internal Song Lists' booklet.

■ Built-in lesson mode song books

Alfred's Basic Piano Library Lesson Book Level 1A	Beyer (Vorschule im Klavierspiel, Opus 101)
Alfred's Basic Piano Library Lesson Book Level 1B	Burgmüller 25 (25 Etudes Faciles, Opus 100)
Alfred's Basic Adult Piano Course Lesson Book Level 1	Czerny 30 (Etudes de Mécanisme, Opus 849)
Alfred's Premier Piano Course Lesson 1A	Czerny 100 (Hundert Übungsstücke, Opus 139)
Alfred's Premier Piano Course Lesson 1B	

1 Selecting a lesson book/song

■ Entering lesson mode

Press the LESSON button.

The LED indicator for the LESSON button will turn on, and the name of the selected lesson book and song will be shown in the LCD display.

```
AlfredChild1A-01
  1-1        =104
```

CONCERT MAGIC   LESSON
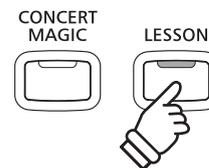
■ Selecting a lesson book/song

While Lesson mode is selected:

Press the ▲ or ▼ MENU buttons to cycle through the available lesson books, then press the ▲ or ▼ VALUE buttons to select the desired song.
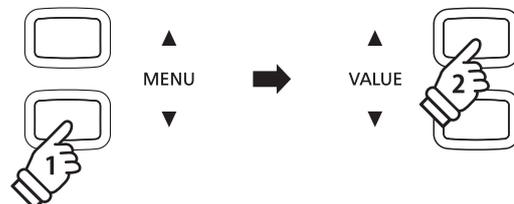
— Book name — Song number

```
AlfredPremr1A-01
  1-1        =104
```

Bar and beat number —   — Tempo —

MENU ➡ VALUE

It is also possible to select songs by pressing and holding the LESSON button, then pressing the relevant key on the keyboard.

* Please refer to the separate 'Internal Song Lists' booklet for a complete listing of available lesson songs.

Internal Songs

2 Listening to the selected lesson song

This page will explain how to play and stop the selected lesson song, and adjust the tempo.

■Playing the lesson song

After selecting a lesson book and song:

Press the PLAY/STOP button.

The LED indicator for the PLAY/STOP button will turn on, and a one bar count-in will be heard before the song starts to play.

```
AlfredChild1A-01
  1-1        ♩=104
```
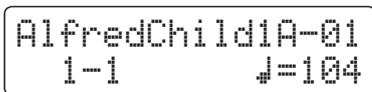
* If the first bar of the song begins on an 'up' beat (i.e. pickup notes), the first bar number will be shown as zero in the LCD display.

* The metronome will not continue after the count-in bar, but can be turned on manually by pressing the TEMPO button.
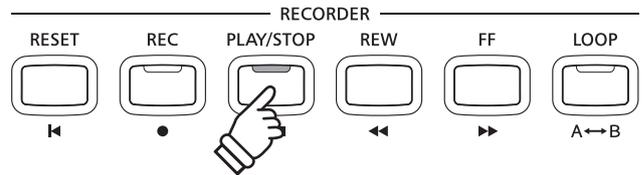
■Changing the tempo of the lesson song

Press and hold the TEMPO button, then press the ▲ or ▼ VALUE buttons to increase or decrease the lesson song tempo.

Press the ▲ and ▼ VALUE buttons simultaneously to reset the lesson song tempo back to the default value.
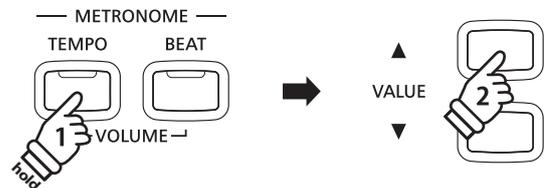
■Stopping and resuming the lesson song

Press the PLAY/STOP button again to stop the lesson song.

Press the PLAY/STOP button once again.

A one bar count-in will be heard before the lesson song resumes playback from the previous position.

Press the PLAY/STOP button to stop the lesson song, then press the RESET button to reset the playing position to the first bar.
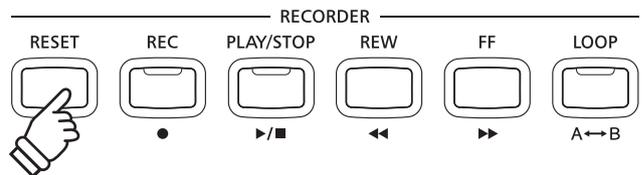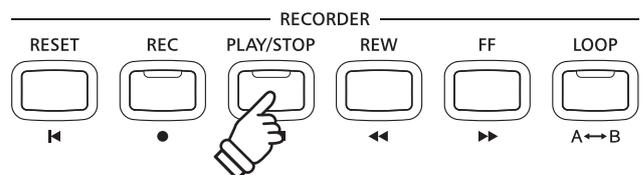
■Exiting lesson mode

Press the LESSON button.

The LED indicator for the LESSON button will turn off and the name of the selected sound will be shown in the LCD display.

37
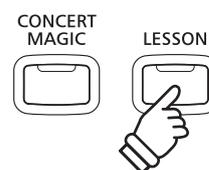
3 Practicing left and right-hand parts separately

This page will explain how to adjust the left and right-hand part volume of the selected lesson song (allowing each part to be practiced separately), and how to start playing a lesson song from a specific bar.

■Adjusting the left/right-hand part volume

After selecting a lesson book and song:

Use the BALANCE slider to adjust the volume balance between the left-hand and right-hand parts.

As the volume of the left-hand part increase, the volume of the right-hand part decreases, and vice versa.

This function allows the left and right-hand parts of each lesson song to be practised seprately, or simply reduce the volume of one part.

Increase left-hand volume ← BALANCE → **Increase right-hand volume**

LEFT · · · · | · · · · RIGHT
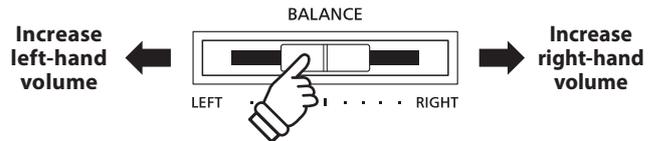
■Beyer lesson songs and part volume

Please refer to page 36 for more information regarding the availability of Beyer lesson songs.

If the Beyer lesson book is selected, moving the balance slider to the left will decrease the volume of the student's part, while moving the balance slider to the right will decrease the volume of the teacher's part.

■Playing the lesson song from a specific bar

Press the FF or REW buttons to advance or rewind the starting bar of the selected lesson song.

Press and hold the FF or REW buttons to fast-forward or fast-rewind the staring bar of the selected lesson song.

Press the PLAY/STOP button.

A one bar count-in will be heard before the song starts to play from the specified bar number.

RECORDER

RESET | REC | PLAY/STOP | REW | FF | LOOP

⏮ | ● | ▶/■ | | | A↔B
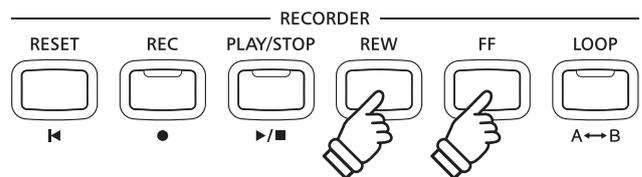
4 Repeating sections of a lesson song

This page will explain how to repeat (loop) specific sections of the selected lesson song between a defined 'A' and 'B' point, allowing difficult passages to be practiced continuously.

1. Specifying the start point (A) of the loop

After selecting a lesson book and song:

Press the PLAY/STOP button.

The LED indicator for the PLAY/STOP button will turn on, and a one bar count-in will be heard before the song starts to play.

```
Burgmueller25-01
  5-1        ♩=126
```
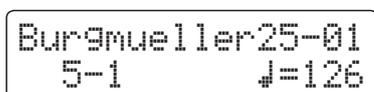
Press the LOOP button to specify the start point of the loop.

The LED indicator for the LOOP button will start to flash, indicating that the start point (A) of the loop has been set.
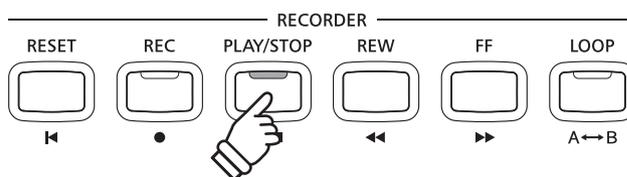
2. Specifying the end point (B) of the loop

Press the LOOP button again to specify the end point of the loop.

The LED indicator for the LOOP button will turn on, indicating that the end point of the (B) of the loop has been set.

```
Burgmueller25-01
 10-2        ♩=126
```
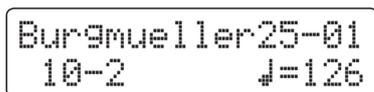
The defined 'A-B' section of the lesson song will repeat (loop) continuously, allowing the passage to be practiced.
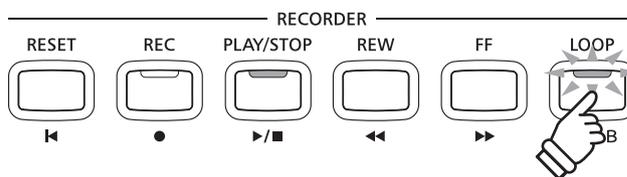
3. Cancelling the 'A-B' loop

Press the LOOP button once again to cancel the 'A-B' loop.

The LED indicator for the LOOP button will turn off and the lesson song will resume normal playback.

* The loop section can also be specified while the lesson song is paused by pressing the FF or REW button to select the bar. The last bar cannot precede the first bar.

Internal Songs

39
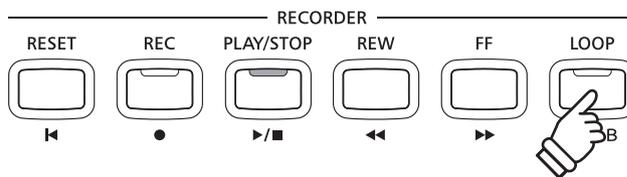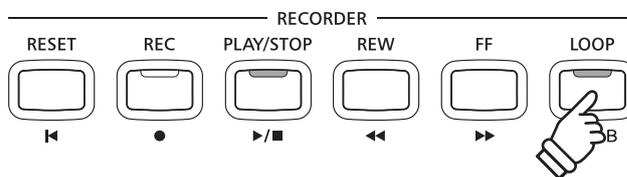
5 Recording a lesson song practice

This page will explain how to record the left or right-hand parts of the selected lesson song, then play back the performance for self-evaluation.

1. Starting the lesson song recording

After selecting a lesson book and song:

Press the REC button.

The LED indicators for the REC and PLAY/STOP buttons will turn on to indicate that recording mode is in use.

A one bar count-in will be heard before the lesson song starts to play and record.
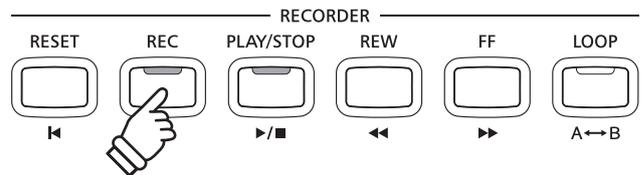
2. Stopping the lesson song recording

Press the PLAY/STOP button.

The LED indicators for the REC and PLAY/STOP buttons will turn off, and the lesson song recording and playback will stop.
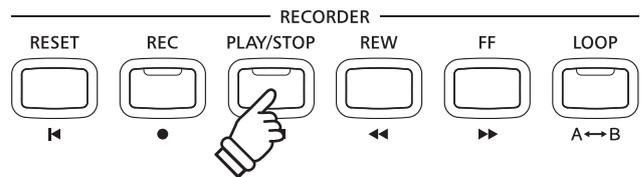
3. Playing back the recorded lesson song

Press the PLAY/STOP button again.

The LED indicator for the PLAY/STOP button will turn on, and a one bar count-in will be heard before the recorded lesson song starts to play.

```
Burgmueller25-01
  4-1        ♩=126
```
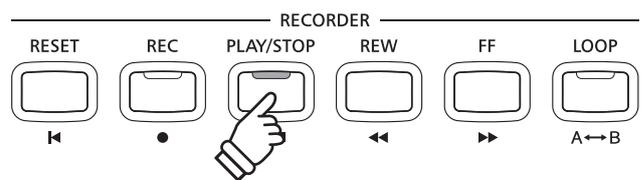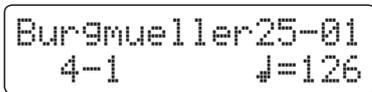
Press the PLAY/STOP button.

The LED indicator for the PLAY/STOP button will turn off, and the recorded lesson song will stop playing.

* The 'A-B' loop function cannot be used when recording a lesson song practice.

* Press the REC and PLAY/STOP buttons simultaneously to erase the recorded lesson song practice.
  The recorded practice will be erased automatically when a different lesson song is selected.

Concert Magic

The Concert Magic function allows complete beginners to enjoy playing the piano by simply selecting one of the 88 pre-programmed songs, then tapping the keyboard with a steady rhythm and tempo.

For a complete listing of available Concert Magic songs, please refer to the separate 'Internal Song Lists' booklet.

1 Performing a Concert Magic song

The 88 Concert Magic songs are assigned to each of the 88 keys, and classified by song category into eight groups, such as Children's Songs, American Classics, Christmas Songs etc.

1. Entering Concert Magic mode

Press the CONCERT MAGIC button.

The LED indicator for the CONCERT MAGIC button will turn on to indicate that Concert Magic mode is in use.

The name of the currently selected Concert Magic song will also be shown in the LCD display.

```
Twinkle Twinkle
 ●     ●     ●     ●
```
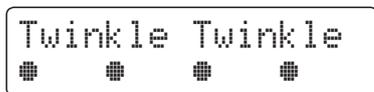
2. Selecting a Concert Magic song

Press and hold the CONCERT MAGIC button, then press the key to which the Concert Magic song is assigned.

A Concert Magic song will be selected, with the song number and name shown in the LCD display.

```
 6
London Bridge
```
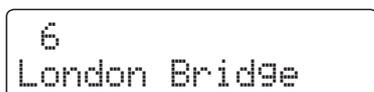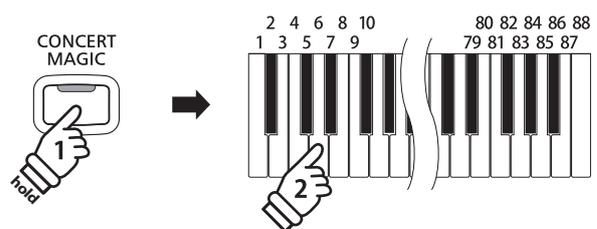
3. Performing the selected Concert Magic song

Press a key on the keyboard.

The song will advance with every key that is pressed. Pressing the keys gently will produce a soft sound, while pressing heavily will produce a loud sound.

```
London Bridge
 ÷     ÷     ●     ●
```
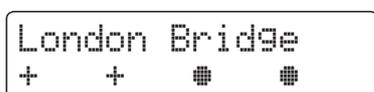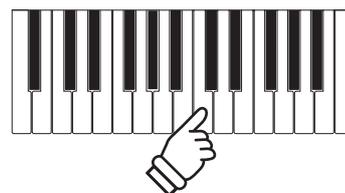
As the song advances, the ● symbols shown in the LCD will be replaced by + symbols. This is called the Note Navigator.

4. Changing the Concert Magic playback sound

Press a SOUND button to change the sound used for the Concert Magic song (melody and accompaniment parts).

It is also possible to select independent sounds for the melody and accompaniment parts:

PIANO 1   PIANO 2   ELECTRIC PIANO   ORGAN
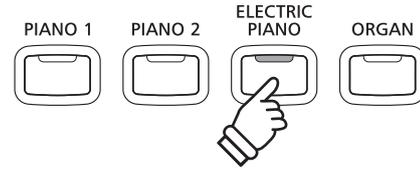
Press the SPLIT button to enable Concert Magic split mode.

Press a SOUND button to change the melody sound.

Press and hold the SPLIT button, then press a SOUND button to change the accompaniment sound.

SPLIT   CHOIR & PAD
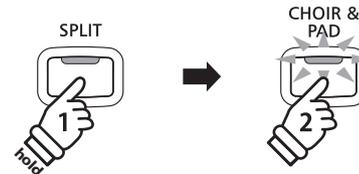
▉ Adjusting the Concert Magic part volume

*Us*e the BALANCE slider to adjust the volume balance between the accompaniment and melody parts.

As the volume of the accompaniment part increase, the volume of the melody part decreases, and vice versa.

BALANCE

Increase Accomp. volume   **Increase Melody volume**

LEFT   · · · · | · · · ·   RIGHT
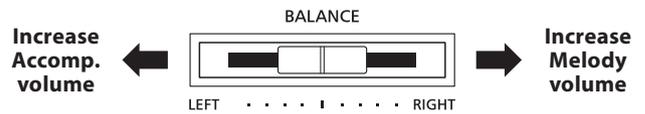
5. Exiting Concert Magic Mode

Press the CONCERT MAGIC button to exit Concert Magic mode.

The LED indicator for the CONCERT MAGIC button will turn off, and the instrument will return to normal playing mode..

CONCERT MAGIC

2 Concert Magic demo mode

This function allows all of the Concert Magic songs to be played back in order, randomly or in designated categories.

■ All playback

Enter Concert Magic mode without selecting a song.

Press the PLAY/STOP button.

All 88 Concert Magic songs will be played in order until the PLAY/STOP button is pressed again.

```
Twinkle Twinkle
 +     +     ▓     ▓
```
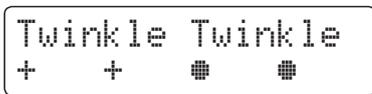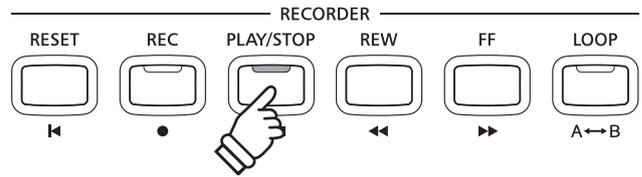
■ Random playback

Enter Concert Magic mode and then press the LESSON button.

All 88 Concert Magic songs will be played in a random order until the PLAY/STOP button is pressed.
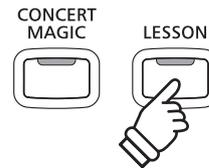
■ Category playback

Press and hold the CONCERT MAGIC button, press the key to which the desired song is assigned, then press the LESSON button.

Songs in the same category as the selected song, will be played in sequential order until the PLAY/STOP button is pressed.
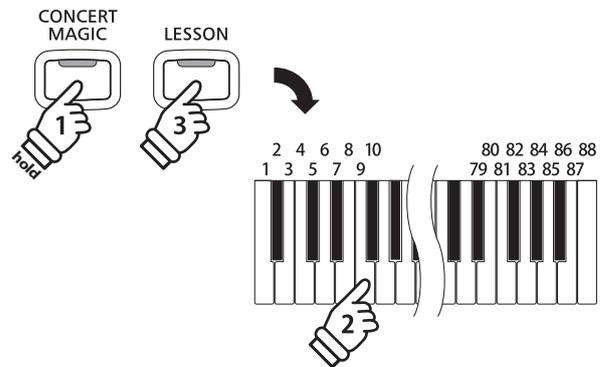
■ Adjusting the playback tempo of the Concert Magic song

While Concert Magic mode is in use:

Press and hold the TEMPO button, then press the ▼ or ▲ VALUE buttons to adjust the playback tempo.

```
Tempo
        ♩= 120
```
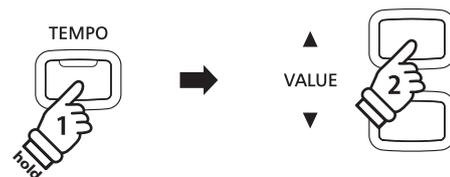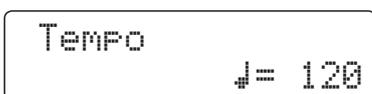
The tempo of the selected Concert Magic song can be adjusted either before playback, or while the song is playing.

3 Concert Magic song arrangement types

Concert Magic songs are divided into three different arrangement types, each requiring a different level of skill to be performed correctly.

* The Concert Magic arrangement type is for each song is indicated in the 'Internal Song Lists' booklet as 'EB', 'MP', or 'SK'.

■Easy Beat   EB

These are the easiest songs to play. To perform them, simply tap out a constant steady beat on any key on the keyboard.

The following example shows the notated score for 'Für Elise', indicating that a constant, steady rhythm should be maintained throughout the song. This is the distinguishing characteristic of an Easy Beat song.

■Melody Play   MP

These songs are also relatively easy to play, especially if they are familiar to the player. To perform them, tap out the rhythm of the melody on any key of the keyboard. Singing along as the rhythm is tapped can be helpful.

The following example shows the notated score for 'Twinkle, Twinkle, Little Star'.

* When performing fast Concert Magic songs, it may be easier to tap different keys with two alternating fingers in order to play at a greater speed.

■Skillful   SK

These songs range in difficulty from moderately difficult to difficult. To perform them, tap out the rhythm of both the melody and the accompaniment notes on any key of the keyboard. The Note Navigator will be very helpful when playing the Skillful type songs.

The following example shows the notated score for 'Waltz of the Flowers'.

4 Steady Beat mode

Steady Beat mode allows all Concert Magic songs to be played by simply tapping any key with a constant steady beat, regardless of the song arrangement type.

■Change the Concert Magic playing mode

Press and hold the CONCERT MAGIC button.

The current Concert Magic mode will be shown on the second line of the LCD screen.

```
Twinkle Twinkle
 NORMAL
```

* The default Concert Magic mode is NORMAL.

Press the ▼ or ▲ VALUE buttons.

The Concert Magic mode will change to STEADY BEAT.

```
Twinkle Twinkle
 STEADY BEAT
```

CONCERT
MAGIC

▲
VALUE
▼
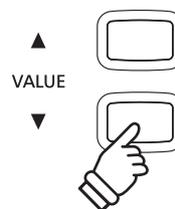
Internal Songs

Song Recorder (Internal memory)

The CN35 digital piano allows up to 3 different songs to be recorded, stored in internal memory, and played back at the touch of a button. Each song consists of two separate tracks - referred to as 'parts' - that can be recorded and played back independently. This allows the left-hand part of a song to be recorded first on one track, and the right-hand part to be recorded later on the other track.

1 Recording a Song

1. Entering song recorder mode

Press the REC button.

The LED indicator for the REC button will start to flash, and the Internal Song Recorder screen will be shown in the LCD display.
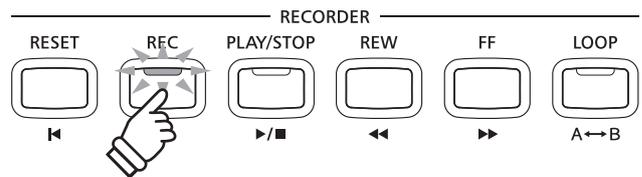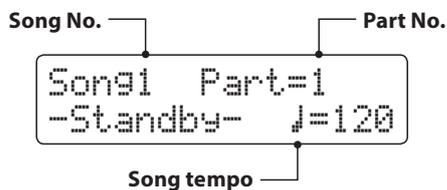
Song No. ———┐   ┌——— Part No.

```
Song1  Part=1
-Standby-  ♩=120
```

Song tempo ———┘

RECORDER

RESET   REC   PLAY/STOP   REW   FF   LOOP

|◄   ►/■   ◄◄   ►►   A↔B

* If a USB memory device is connected, press the MENU ▲ button to select the 'Int. Recorder' function.

* The Recorder shares the song tempo setting with the Metronome functions.

2. Selecting the song/part to be recorded

Press the REW or FF buttons to select the internal song memory (1-3) to be recorded to.

Part has been recorded ———┐

```
Song1  Part=1*
-Standby-  ♩=120
```

REW   FF

◄◄
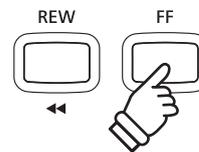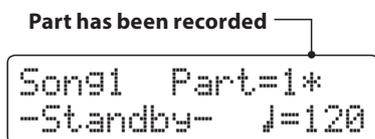
Then press the ▼ or ▲ VALUE buttons to select the part number (1 or 2) to be recorded.

* If a part has already been recorded, a * symbol will be shown.

▲

VALUE

▼

⚠ **When recording part 1 and part 2 separately, select the song and part number carefully in order to prevent accidentally overwriting a previously recorded part.**

3. Starting the song recorder

Press a key on the keyboard.

The LED indicators for the REC and PLAY/STOP buttons will turn on, and recording will start.

The current bar and beat will also be shown in the LCD display.
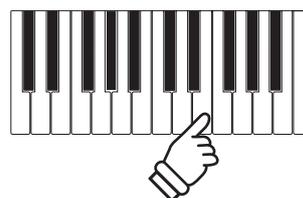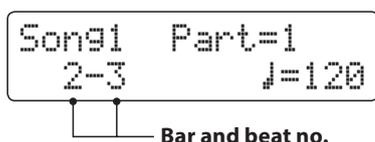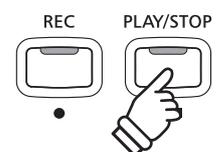
```
Song1  Part=1
  2-3     ♩=120
```

└———┴——— Bar and beat no.

or

REC   PLAY/STOP

* Recording can also be started by pressing the PLAY/STOP button, allowing a rest period or empty bar to be inserted at the beginning of the song.

Recorder

4. Stopping the song recorder

Press the PLAY/STOP button.

The LED indicators for the PLAY/STOP and REC buttons will turn off, the recorder will stop, and the part/song will be stored in internal memory.

After a few seconds, the Internal Song Player screen will be shown in the LCD display, indicating that the song is ready for playback.

```
Song1  Part=1*
    1-1        ♩=120
```

To play back the recorded song, please refer to the 'Playing a Song' instructions on page 48.

RECORDER
RESET   REC   PLAY/STOP   REW   FF   LOOP
⏮   ●   ◀◀   ▶▶   A↔B
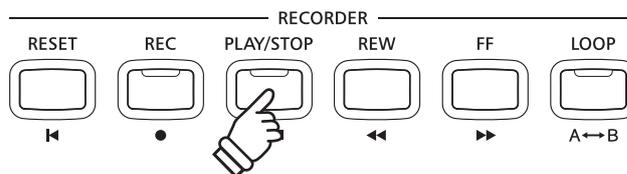
* The maximum recording capacity is approximately 90,000 notes, with button and pedal presses also counted as one note.

* If the maximum recording capacity is reached during recording, the recorder will stop automatically.

* Recorder songs will remain in memory after the power is turned off.

■ Recording a second part

To record a second part, repeat the above instructions, selecting the part that has not been recorded to.

■ Recording with the metronome

It is also possible to record songs with the metronome activated. This is useful when recording parts separately, or wishing to maintain correct timing throughout complex passages. Note that the standard metronome click and drum rhythm will not be heard when the song is played back.

* Please refer to page 32 for more information about using the instrument's Metronome function with the Recorder.

■ Changing panel settings while recording

In some cases, it may be desirable to make changes to the selected sound or style while recording a song. The tables below list the various functions which will and will not be remembered during recording.

Panel operations remembered during recording	Panel operations NOT remembered during recording*
Changes made to the sound type. (SOUND buttons etc.)	Changes made to the reverb settings.
Switching between dual/split modes.	Changes made to the effects settings.
Changes made to the volume balance in dual/split mode.	Changes made to the tempo.
	Changes made to transpose, tuning, touch, etc.

* Make changes to desired effects, reverb, and tempo settings etc. before recording a new song.

5. Exiting song recorder mode

Press a SOUND button to exit the Internal Song Recorder.

The instrument will return to normal playing mode.

PIANO 1   PIANO 2   ELECT PIAI   BASS   OTHERS
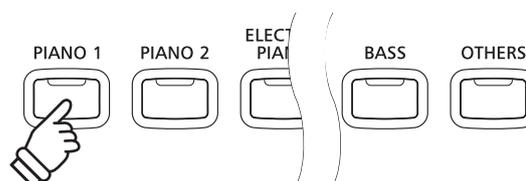
2 Playing a Song

This function is used to playback recorder songs stored in internal memory. To playback a song/part immediately after recording, start this process from step 2.

1. Entering song play mode

Press the PLAY/STOP button.

The LED indicator for the PLAY/STOP button will turn on, and the Internal Song Player screen will be shown in the LCD display.
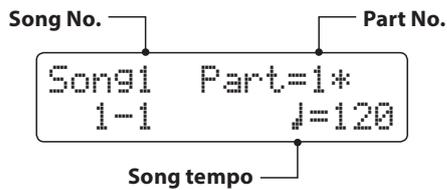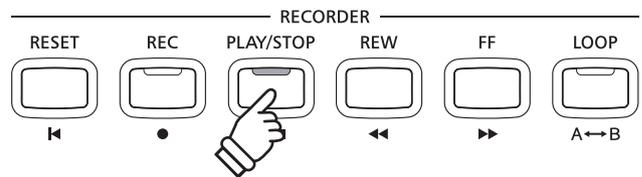
Song No. ——┐   ┌—— Part No.

```
Song1  Part=1*
  1-1       ♩=120
```

Song tempo ——┘

* If a USB memory device is connected, press the MENU ▲ button to select the 'Int. Recorder' function.

2. Selecting the song to be played back

Press the REW or FF buttons to select the internal song memory (1-3) to be played back.

Part has been recorded ——┐

```
Song2  Part=1&2*
  1-1       ♩=120
```
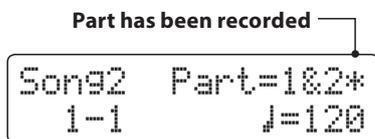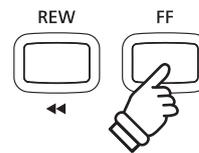
* If a part has already been recorded, a ✳ symbol will be shown.

3. Starting song playback

Press the PLAY/STOP button.

The selected song/part(s) will start to play, and the current bar and beat will also be shown in the LCD display.

```
Song2  Part=1&2*
  4-1       ♩=120
```

└——┴—— Bar and beat no.
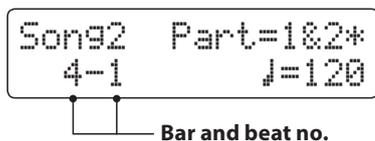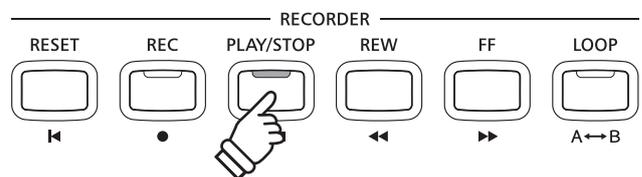
■ Controlling song playback

While the song is playing:

Press the REW or FF buttons to rewind or advance the playing position of the song.

Press the A-B LOOP button twice to set the start and end points of the loop.

* Pressing the A-B LOOP button for a third time will turn off the loop.

Press the PLAY/STOP button to pause and resume song playback.

Press the RESET button to return to the beginning of the song.

RECORDER

RESET | REC | PLAY/STOP | REW | FF | LOOP

A ⟷ B

PLAY/STOP
Pause/resume
song playback.

REW and FF
Rewind/advance
playing position.

RESET
Reset song to
beginning.

A-B LOOP
Set start/end
points of loop.
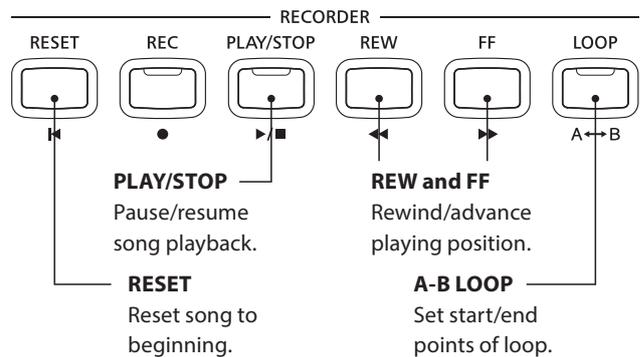
■ Adjusting the playback tempo

While the song is playing:

Press the ▼ or ▲ VALUE buttons to adjust the playback tempo.

* The playback tempo can be adjusted within the range of 10 - 400 beats per minute (BPM).
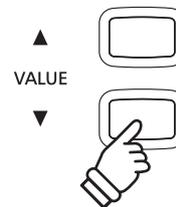
▲
VALUE
▼

■ Adjusting playback settings (playback menu)

The playback menu features settings to adjust the song volume, and pitch (transpose), and change the selected playing part(s).

While the song is playing:

Press the ▼ or ▲ MENU buttons to enter the playback menu and select the desired setting, then press the ▼ or ▲ VALUE buttons to adjust the setting value.

```
Song Volume
= 5
```
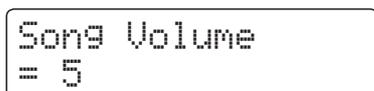
* The song volume setting can be adjusted within the range of 1 - 10.

* The song pitch can be raised or lowered by up to 12 semi-tones.

* The song part setting cycles through part 1, part 2, and parts 1&2.

Press the ▼ and ▲ MENU buttons simultaneously to return to the Internal Song Play screen.

▲
MENU
▼

➡

▲
VALUE
▼
2

1

▲
MENU
▼
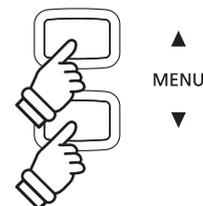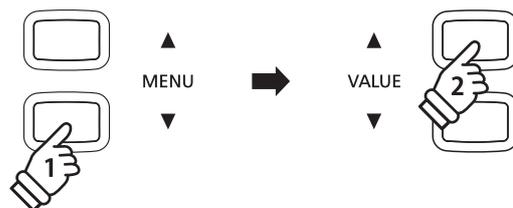
4. Exiting song play mode

Press a SOUND button to exit the Internal Song Player.

The instrument will return to normal playing mode.

PIANO 1 | PIANO 2 | ELECT PIAI | BASS | OTHERS
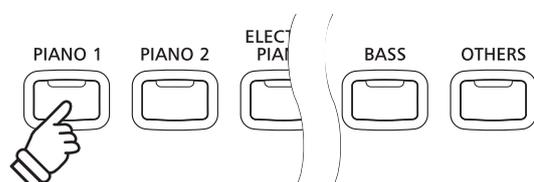
3 Erasing a Part/Song

This function is used to erase recorder parts that have been recorded incorrectly or songs that are no longer listened to. Once a part/song has been erased from memory it cannot be recovered.

1. Entering song erase mode

Press the REC and PLAY/STOP buttons simultaneously.

The LED indicators for the REC and PLAY/STOP buttons will start to flash, and the Erase Song screen with the currently selected song and part number will be shown in the LCD display.

```
Delete      →REC
Song1  Part=1*
```
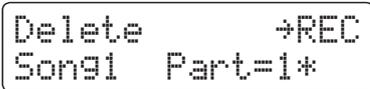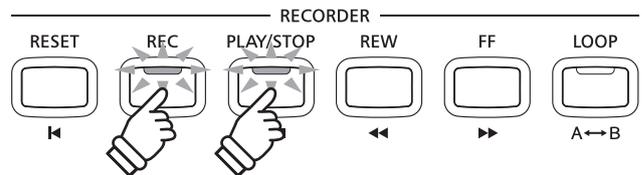
2. Selecting a song and part(s) to be erased

Press the REW or FF buttons to select the internal song memory (1-3) to be erased.

```
Delete      →REC
Song2  Part=1&2*
```
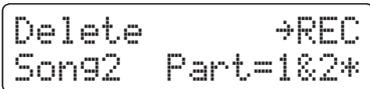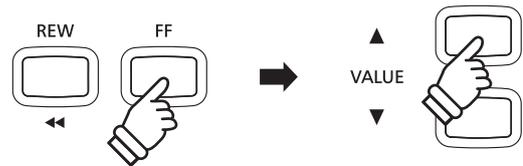
Parts have been recorded

Then press the ▼ or ▲ VALUE buttons to select the part number(s) (1, 2, or 1&2) of the selected song to be erased.

* If a part has already been recorded, a ✳ symbol will be shown.

3. Erasing the selected song and part(s)

Press the REC button.

A confirmation message will be shown in the LCD display, prompting to confirm or cancel the erase operation.

```
Are you sure?
    →Press VALUE▲
```
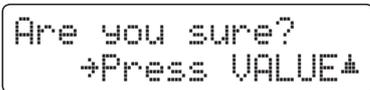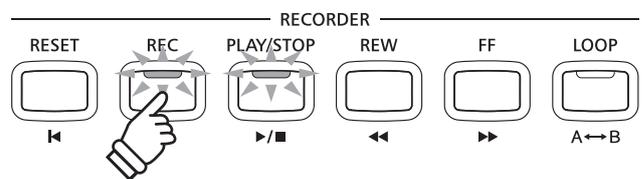
Press the VALUE ▲ button to confirm the erase operation and return to the Internal Song Player screen.

Press the PLAY/STOP button to to cancel the erase operation.
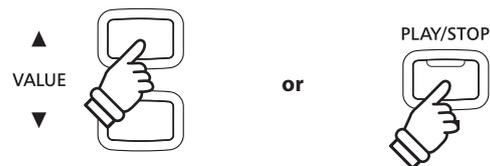
■ Erasing all recorder songs from memory

Press and hold the PLAY/STOP and REC buttons, then turn the instrument's power off/on.

All recorder songs stored in memory will be erased.
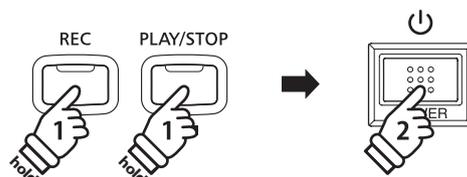
Audio Record/Playback (USB memory)

The CN35 digital piano is also capable of recording performances as digital audio - saving the data to a USB memory device in either MP3 or WAV format. This useful function allows professional quality recordings to be produced directly on the instrument - without the need for additional sound equipment - then emailed to band members, listened to away from the instrument, or edited and remixed further using an audio workstation.

■ Audio Recorder format specifications

Audio Format	Specifications	Bitrate
MP3	44.1 kHz, 16 bit, Stereo	192 kbit/s (fixed)
WAV	44.1 kHz, 16 bit, Stereo	1,411 kbit/s (uncompressed)

MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.
MP3 codec is Copyright (c) 1995-2007, SPIRIT.

1 Recording an Audio file

1. Entering USB recorder mode

Connect a USB memory device to the USB port.

Press the REC button, then press the MENU ▼ button to select the 'USB Recorder' function.

The LED indicator for the REC and USB buttons will start to flash, and the USB Recorder screen will be shown in the LCD display.

2. Selecting the audio recorder file format

Press the ▼ or ▲ VALUE buttons to select the desired audio recorder file format (MP3 or WAV).

```
New Song
     Format = MP3
```
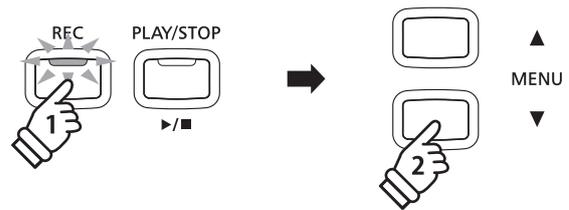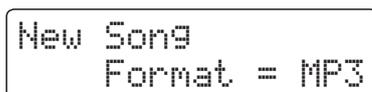
* MP3 audio files require less storage space than WAV audio files.

* A 1 GB USB memory device can store over 12 hours of MP3 audio data.

3. Starting the audio recorder

Press a key on the keyboard.

The LED indicators for the REC and PLAY/STOP buttons will turn on, and recording will start.

The recording status will also be shown in the LCD display.
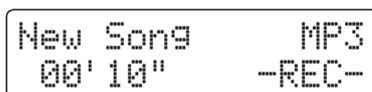
```
New Song      MP3
  00'10"     -REC-
```
Recording time

* Recording can also be started by pressing the PLAY/STOP button, allowing a rest period or empty bar to be inserted at the beginning of the song.

4. Stopping the audio recorder, saving to USB

Press the PLAY/STOP button.

The LED indicators for the PLAY/STOP and REC buttons will turn off, and recording will stop.

A confirmation message will be shown in the LCD display, prompting to save the recorded audio file.

```
Save to USB?
Yes→REC  No→STOP
```

Press the REC button to continue, or the PLAY/STOP button to cancel the save operation.

* If cancelled, the audio recorder will return to the previous screen.

REC
Continue (Yes)
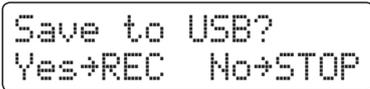
PLAY/STOP
Cancel (No)
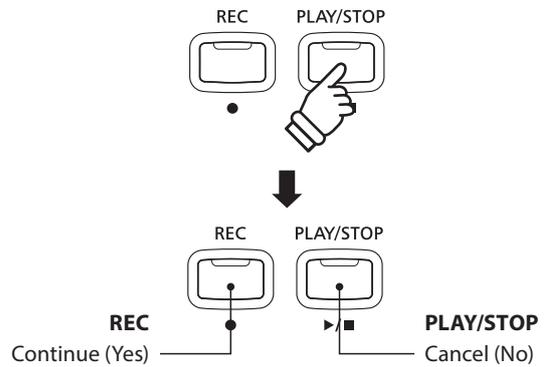
5. Naming the recorded audio file, confirming save

After pressing the REC button to continue the save:

The filename entry screen will be shown in the LCD display.

```
Filename:   →REC
 Jazzy Tune  MP3
```
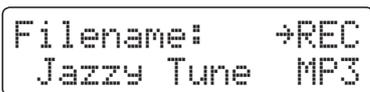
Press the ▼ or ▲ VALUE buttons to cycle through the characters, and the ▼ or ▲ MENU buttons to move the cursor.

Press the REC button again to save the recorded audio file with the specified filename.

After a few seconds, the Audio Player screen will be shown in the LCD display, indicating that the song is ready for playback.

```
Jazzy Tune.MP3
 00'00"  Vol.=5
```
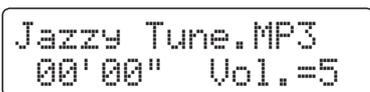
To play back the recorded audio file, please refer to the 'Playing an Audio File' instructions on page 53.

▼ or ▲ MENU
Move cursor.

▼ or ▲ VALUE
Select character.
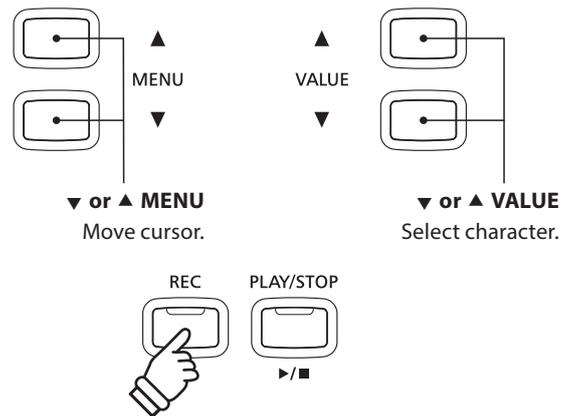
* 'Audio-000.MP3' or 'Audio-000.WAV' will be used as the default name for the recorded audio files, with the number increasing automatically.

* Save files are limited to a maximum name length of 11 characters.

* The saved audio file will be stored in the root folder of the USB memory device. It is not possible to store the file in a different folder.

* The audio recorder will only record sounds produced by the instrument. Devices connected via the LINE IN jacks will not be recorded.

■ Overwriting a file

If the specified filename already exists:

A confirmation message will be shown in the LCD display, prompting to confirm or cancel the overwrite operation.

```
Overwrite file?
Yes→REC  No→STOP
```

Press the REC button to confirm the overwrite, or the PLAY/STOP button to cancel.

* If cancelled, the audio recorder will return to the saving screen (step 4).

REC
Continue (Yes)
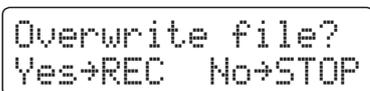
PLAY/STOP
Cancel (No)

Recorder
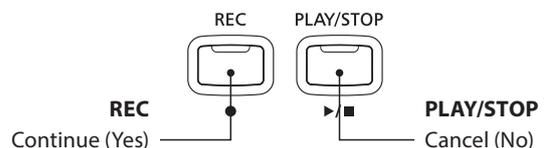
2 Playing an Audio file

The CN35 digital piano is also capable of playing MP3 and WAV audio files stored on a USB memory device directly through the instrument's speaker system. This function is particularly useful when attempting to learn the chords or melody to a new piece, or to simply play along with one's favourite song.

■ Audio Player supported format specifications

Audio Format	Specifications	Bitrate
MP3	32 kHz/44.1 kHz/48 kHz, Mono/Stereo	8-320 kbit/s (fixed & variable)
WAV	32 kHz/44.1 kHz/48 kHz, Mono/Stereo, 16 bit	-

MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.
MP3 codec is Copyright (c) 1995-2007, SPIRIT.

■ Preparing the USB memory device

First, prepare a selection of MP3 or WAV audio files, copying the data to a USB memory device.

* USB devices should be formatted to use the 'FAT' or 'FAT32' filesystems. Please refer to page 120 for more information.

1. Entering USB playback mode

Connect a USB memory device to the USB port.

Press the PLAY/STOP button, then press the MENU ▼ button to select the 'USB Player' function.

The LED indicator for the PLAY/STOP button will turn on, and the file selection screen will be shown in the LCD display.

REC   PLAY/STOP

MENU
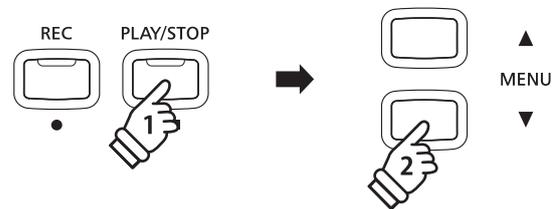
* The LED indicator for the USB button will start to flash.

■ File selection screen

The file selection screen provides a listing of relevant files and folders stored on the connected USB device.

The ▶ symbol is used to indicate the selected file/folder.
The ⟨ ⟩ symbols are used to indicate a folder.

An example of a typical file/folder listing screen is shown below. The visible screen height has been extended for the purpose of this illustration.

MENU   VALUE

▲ MENU   ▼ or ▲ VALUE
Select file/folder.   Move cursor.

```
[Parent Dir   ]     — Previous folder
<Jazz MP3s     >
<MIDI Files    >    — Folders
Cardova     MID
I Got You   MP3
▶Man's World MP3    — Files
Root Down   WAV
```

Selection cursor
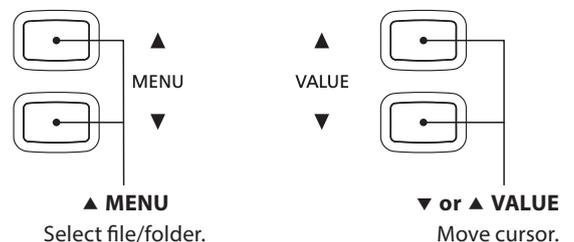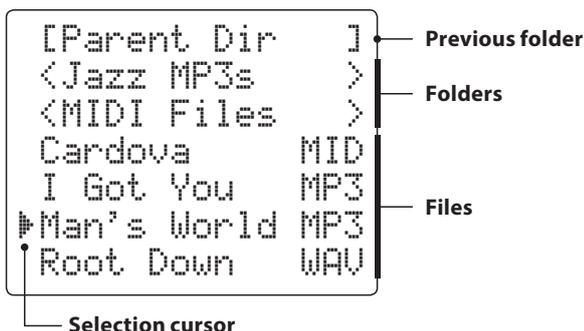
* Files and folders will be listed in alphabetical order, with folders shown at the top of the screen.

* When the USB Player function is selected, only MP3, WAV, and MID files will be shown.

* The LCD display is capable of showing filenames with a maximum length of 11 characters (+3 character suffix). Filenames longer than 11 characters will be truncated automatically.

2. Selecting and playing an audio file

Press the ▼ or ▲ VALUE buttons to move the selection cursor, then press the MENU ▲ button to select the file.

The audio play screen will be shown in the LCD display.

```
Man's World.mp3
  00'00"   Vol.=5
```
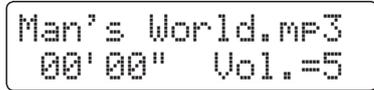
Press the PLAY/STOP button.

The LED indicator for the PLAY/STOP button will turn on and the selected audio file will start to play.

* To activate the 'Chain Play' mode, press and hold the PLAY/STOP button when selecting the file. The contents of the current folder will be played in alphabetical order after the initial file has finished playing.
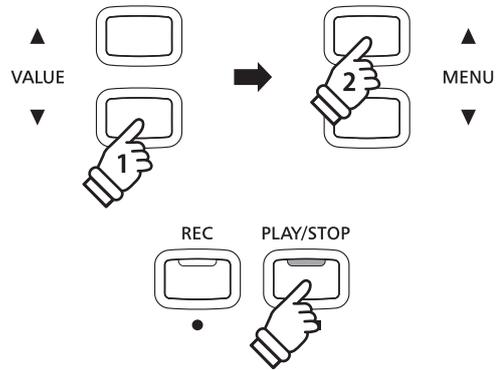
* If the selected audio file contains embedded metadata (e.g. ID3 tags) such as artist name and song title, this information will be shown beside the filename, on the top line of the LCD display.

■ Controlling audio file playback

While the audio file is playing:

Press the REW or FF buttons to rewind or advance the playing position of the audio file.

Press the A-B LOOP button twice to set the start and end points of the loop.

* Pressing the A-B LOOP button for a third time will turn off the loop.

Press the PLAY/STOP button to pause and resume playback.

Press the RESET button to return to the beginning of the audio file.

RECORDER

RESET   REC   PLAY/STOP   REW   FF   LOOP

PLAY/STOP
Pause/resume
song playback.

REW and FF
Rewind/advance
playing position.

RESET
Reset song to
beginning.

A-B LOOP
Set start/end
points of loop.
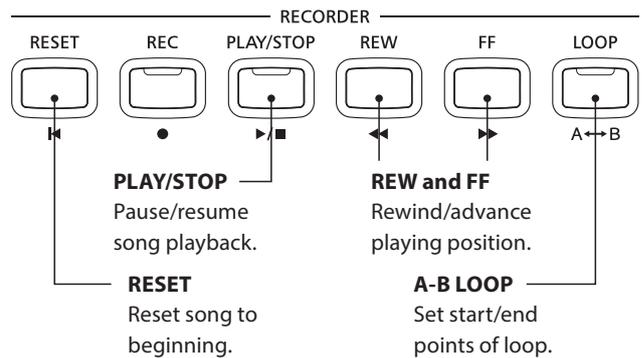
■ Adjusting the audio file playback volume

Press the ▼ or ▲ VALUE buttons to adjust the playback volume.

* The playback volume can be adjusted within the range of 1 - 10.

* There may be a noticeable difference in volume between audio file playback and the CN35 keyboard sound. When playing back MP3/WAV audio data, please adjust the volume of the audio file as desired.
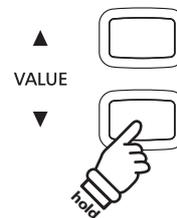
▲ VALUE ▼

hold

3. Exiting USB playback mode

Press the USB button to exit the USB Player.

The instrument will return to normal playing mode.

USB

Recorder

3 Overdubbing an Audio file

This function allows the sound of the CN35 to be recorded (overdubbed) to an existing MP3 or WAV audio file.

1. Entering USB recorder mode

Connect a USB memory device to the USB port.

Press the PLAY/STOP button, then press the MENU ▼ button to select the 'USB Player' function.

The LED indicator for the PLAY/STOP button will turn on, and the file selection screen will be shown in the LCD display.
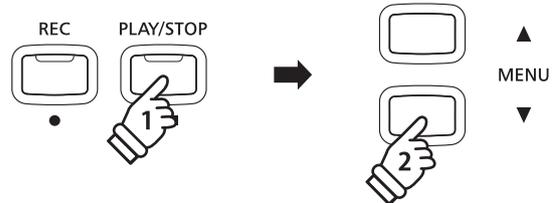
2. Selecting an audio file

Press the ▼ or ▲ VALUE buttons to move the selection cursor, then press the MENU ▲ button to select the file.

The audio play screen will be shown in the LCD display.

```
Man's World.mp3
 00'00"  Vol.=5
```
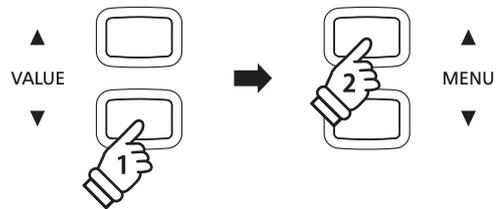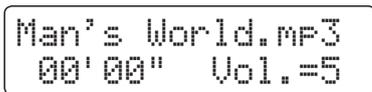
3. Selecting Overdubbing mode

Press the REC button, then press the ▼ or ▲ VALUE buttons to select Overdubbing mode.

Next press the REC button.
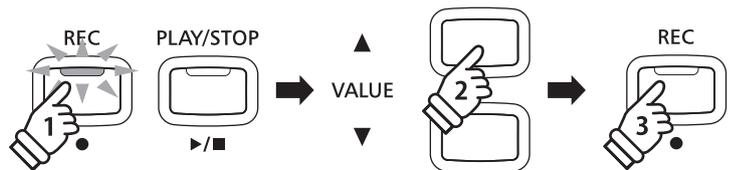
```
Rec Mode      →REC
=NewSong
```

```
Rec Mode      →REC
=Over Dubbing
```

```
Over Dubbing
    Format = MP3
```

* To record a new song, select the New Song mode, then press the REC button.

4. Selecting the audio recorder file format

Press the ▼ or ▲ VALUE buttons to select the desired audio recorder file format (MP3 or WAV).

```
Over Dubbing
     Format = MP3
```

▲
VALUE
▼
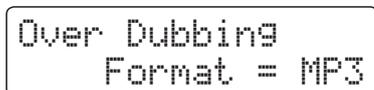
5. Starting the audio recorder

Press a key on the keyboard, or press the PLAY/STOP button.

The LED indicators for the REC and PLAY/STOP buttons will turn on, the selected audio file will begin to play, and overdubbing will start.

or

PLAY/STOP
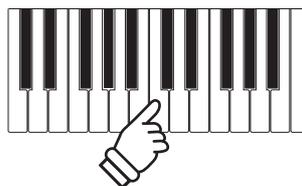
4 Recording a MIDI file

This useful function allows 16 track SMF (Standard MIDI File) format songs to be recorded directly on the instrument, or for existing song files to be edited/modified without the need for additional sound equipment.

■ Song Recorder format specifications

Song Format	Specifications
MID	Format 0

1. Entering USB recorder mode

Connect a USB memory device to the USB port.

Press the REC button, then press the MENU ▼ button to select the 'USB Recorder' function.

The LED indicator for the REC and USB buttons will start to flash, and the USB Recorder screen will be shown in the LCD display.

* It is also possible to re-record to an existing song. Before pressing the REC button, select the MIDI file and enter USB playback mode. Please refer to the 'Playing a MIDI File' instructions on page 60.
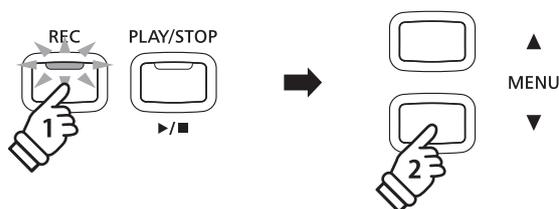
2. Selecting the recorder file format

Press the ▼ or ▲ VALUE buttons to select the MID format.

```
New Song
      Format = MID
```
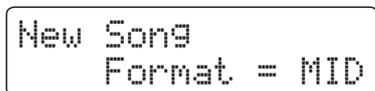
3. Selecting the part (track) to record

Press the REC button.

The part select screen will be shown in the LCD display.

Press the ▼ or ▲ VALUE buttons to select the part to record.

* Part 10 is reserved as a drum track. When selecting Part 10, only drum sounds can be played. Similarly, drum sounds can only be played on Part 10.

* When the Rec Part is set to MIDI, all data received from the MIDI IN jack will be recorded on Parts 1-16, according to the MIDI channel.

* An asterisk (✳) symbol will be shown beside the part number to indicate that the part has been recording and contains song data.

4. Starting the recorder

Press a key on the keyboard.

The LED indicators for the REC and PLAY/STOP buttons will turn on, and recording will start.

The recording status will also be shown in the LCD display.
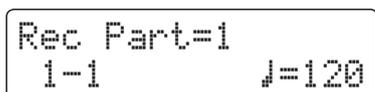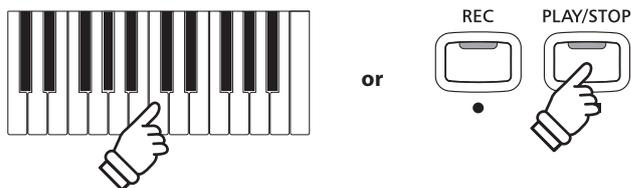
```
Rec Part=1
 1-1       ♩=120
```
Bar and beat no.

* Recording can also be started by pressing the PLAY/STOP button, allowing a rest period or empty bar to be inserted at the beginning of the song.

5. Stopping the song recorder, saving to USB

Press the PLAY/STOP button.

The LED indicators for the PLAY/STOP and REC buttons will turn off, and recording will stop.

A confirmation message will be shown in the LCD display, prompting to save the recorded SMF.
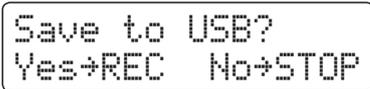
```
Save to USB?
Yes→REC   No→STOP
```

Press the REC button to continue, or the PLAY/STOP button to cancel the save operation.

* If cancelled, the MIDI recorder will return to the previous screen.
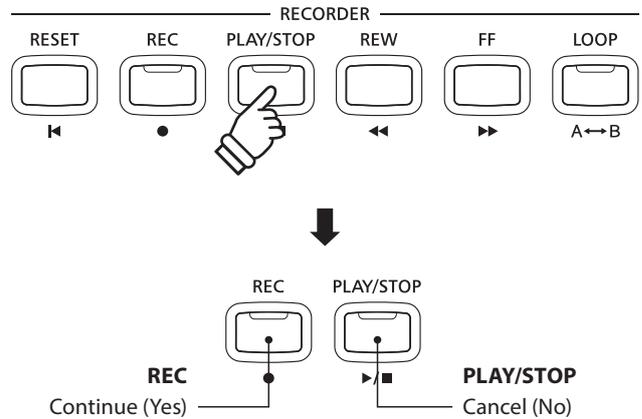
6. Naming the recorded song file, confirming save

After pressing the REC button to continue the save:

The filename entry screen will be shown in the LCD display.

```
Filename:    →REC
  Jazzy Tune   MID
```
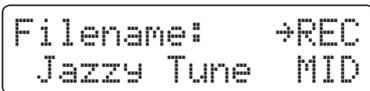
Press the ▼ or ▲ VALUE buttons to cycle through the characters, and the ▼ or ▲ MENU buttons to move the cursor.

Press the REC button again to save the recorded audio file with the specified filename.

After a few seconds, the MIDI Player screen will be shown in the LCD display, indicating that the song is ready for playback.

```
Jazzy Tune.MID/J
 1-1          ♩=120
```
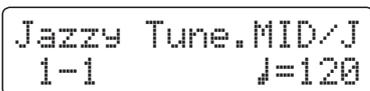
To play back the recorded MIDI file, please refer to the 'Playing a MIDI File' instructions on page 60.

▼ or ▲ MENU
Move cursor.

▼ or ▲ VALUE
Select character.
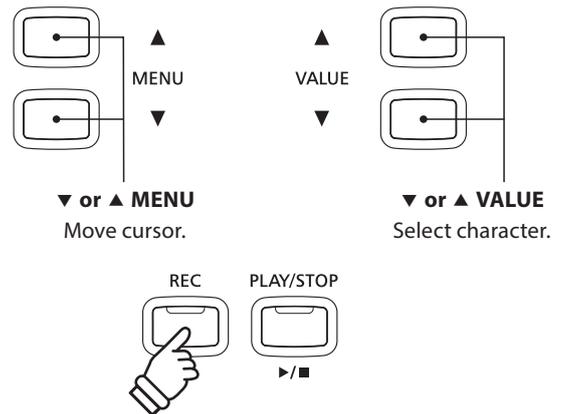
* 'Song-000.MID' will be used as the default name for the recorded SMF, with the number increasing automatically.

* Save files are limited to a maximum name length of 11 characters.

* The saved SMF will be stored in the root folder of the USB memory device. It is not possible to store the file in a different folder.

■ Subsequently recording other parts

To record additional tracks to the MIDI file, when the MIDI Player screen is shown in step 6:

Press the REC button

The Rec Mode screen will be shown in the LCD display.

```
Rec Mode    →REC
=16Tr.Record
```
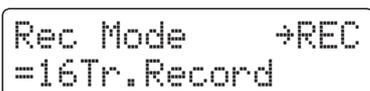
Press the ▼ or ▲ VALUE buttons button to select 16 Track Record mode, then repeat the process from step 3.
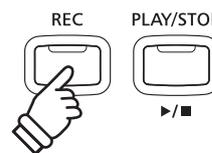
Recorder

■ Overwriting a file

If the specified filename already exists:

A confirmation message will be shown in the LCD display, prompting to confirm or cancel the overwrite operation.

```
Overwrite file?
Yes→REC  No→STOP
```

Press the REC button to confirm the overwrite, or the PLAY/STOP button to cancel.

* If cancelled, the audio recorder will return to the saving screen (step 5).

REC   PLAY/STOP

REC
Continue (Yes)
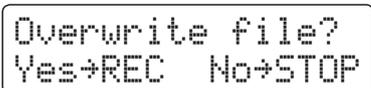
▶/■   **PLAY/STOP**
Cancel (No)
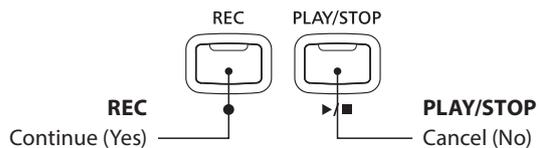
5 Playing a MIDI file

The CN35 digital piano also supports the playback of Standard MIDI File (SMF) song files stored on a USB memory device, allowing a vast selection of widely accessible music to be heard through the instrument's exquisite Progressive Harmonic Imaging sound engine.

■ Song Player supported format specifications

Song Format	Specifications
MID	Format 0, Format 1

■ Preparing the USB memory device

First, prepare a selection of MID (SMF) song files, copying the data to a USB memory device.

* USB devices should be formatted to use the 'FAT' or 'FAT32' filesystems. Please refer to page 120 for more information.

1. Entering USB playback mode

Connect a USB memory device to the USB port.

Press the PLAY/STOP button, then press the MENU ▼ button to select the 'USB Player' function.

The file selection screen will be shown in the LCD display.

* Please refer to page 53 for information about the file selection screen.
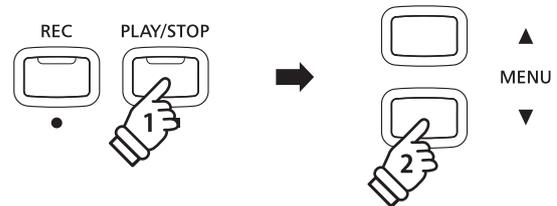
2. Selecting and playing a MIDI file.

Press the ▼ or ▲ VALUE buttons to move the selection cursor, then press the MENU ▲ button to select the MIDI file.

The MIDI player screen will be shown in the LCD display.

```
Cardova.mid/Mete
  1-2      ♩=120
```

Bar and beat no.
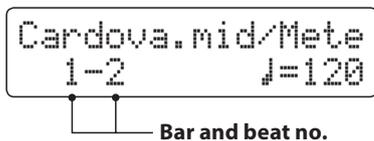
Press the PLAY/STOP button.

The LED indicator for the PLAY/STOP button will turn on and the selected MIDI file will start to play.

* To activate the 'Chain Play' mode, press and hold the PLAY/STOP button when selecting the file. The contents of the current folder will be played in alphabetical order after the initial file has finished playing.
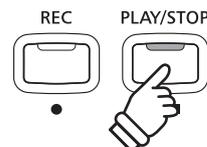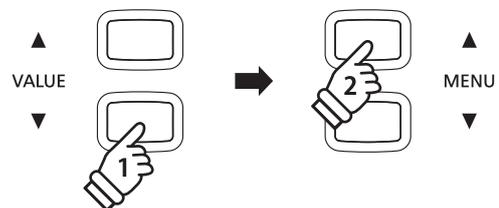
■Controlling MIDI file playback

While the MIDI file is playing:

Press the REW or FF buttons to rewind or advance the playing position of the MIDI file.

Press the A-B LOOP button twice to set the start and end points of the loop.

* Pressing the A-B LOOP button for a third time will turn off the loop.

Press the PLAY/STOP button to pause and resume playback.

Press the RESET button to return to the beginning of the MIDI file.

RECORDER

RESET   REC   PLAY/STOP   REW   FF   LOOP

PLAY/STOP
Pause/resume
song playback.

REW and FF
Rewind/advance
playing position.

RESET
Reset song to
beginning.

A-B LOOP
Set start/end
points of loop.
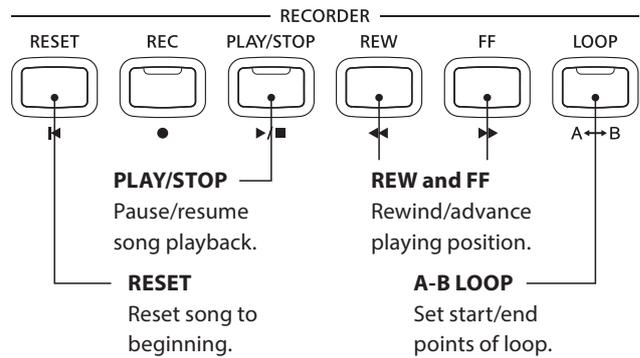
■Adjusting the MIDI file playback tempo

Press the ▼ or ▲ VALUE buttons to adjust the playback tempo.

* The playback tempo can be adjusted within the range of 10 -400.

▲
VALUE
▼

hold
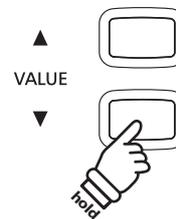
■Adjusting playback settings (playback menu)

The playback menu features settings to adjust the MIDI file's song volume, and pitch (transpose), and select the muting parts.

While the MIDI file is playing:

Press the ▼ or ▲ MENU buttons to enter the playback menu and select the desired setting, then press the ▼ or ▲ VALUE buttons to adjust the setting value.

▲
MENU
▼

➡

▲
VALUE
▼

1

2

```
Song Volume
= 5
```
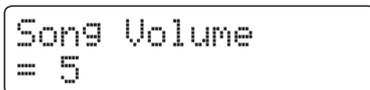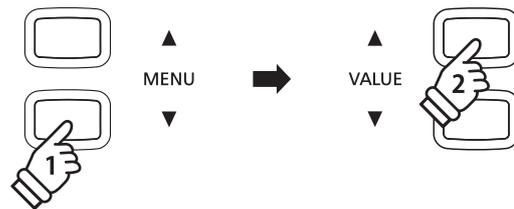
* The song volume setting can be adjusted within the range of 1 -10.

* The song pitch can be raised or lowered by up to 12 semi-tones.

* The song part setting allows each of the 16 parts (tracks) of the SMF song to be individually muted or played.
  Press the ▲ VALUE button to enter the song part screen.
  Press the ▼ or ▲ VALUE buttons to mute/play the part (track).
  Press the ▼ or ▲ MENU buttons to move the selection cursor.
  A '▶' symbol is used to indicate a playing part.
  An '✕' smbol is used to indicate a muted part.
  An '—' symbol is used to indicate an empty part.
  Press the ▼ and ▲ MENU buttons simultaneously to return to the playback menu.

Press the ▼ and ▲ MENU buttons simultaneously to return to the song player screen.
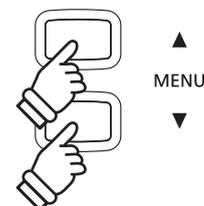
123456789101112131415 16
▶▶▶✕———▶✕▶————————

▲
MENU
▼

3. Exiting USB playback mode

Press the USB button to exit the USB Player.

The instrument will return to normal playing mode.

USB

Recorder

6 Converting a MIDI file to an Audio file

This function allows MIDI files or CN35 recorder songs stored on a USB memory device to be played back and saved (converted) as an audio file (to the USB device) in either MP3 or WAV format.

1. Entering USB recorder mode

Connect a USB memory device to the USB port.

Press the PLAY/STOP button, then press the MENU ▼ button to select the 'USB Player' function.

The file selection screen will be shown in the LCD display.
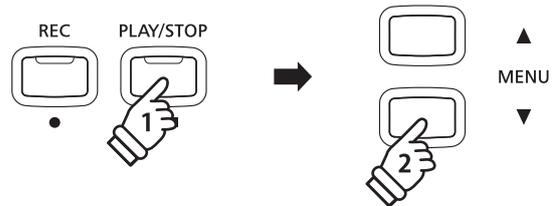
2. Selecting a MIDI file

Press the ▼ or ▲ VALUE buttons to move the selection cursor, then press the MENU ▲ button to select the MIDI file.

The MIDI player screen will be shown in the LCD display.

```
Cardova.mid/Mete
  1-2      ♩=120
```
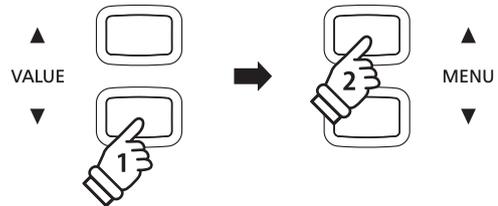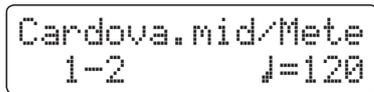
3. Selecting Convert To Audio mode

Press the REC button, then press the ▼ or ▲ VALUE buttons to select Convert To Audio mode

Next press the REC button.
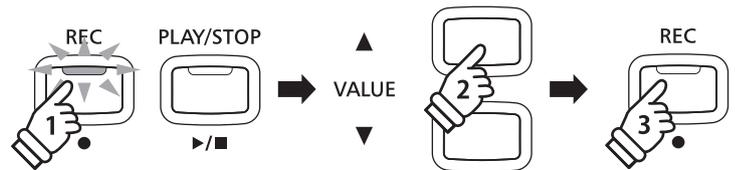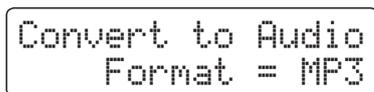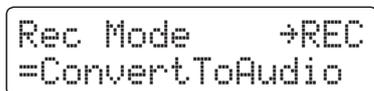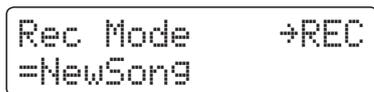
```
Rec Mode     →REC
=NewSong
```

```
Rec Mode     →REC
=ConvertToAudio
```

```
Convert to Audio
    Format = MP3
```

* To record a new song, select the New Song mode, then press the REC button.

4. Selecting the audio recorder file format

Press the ▼ or ▲ VALUE buttons to select the desired audio recorder file format (MP3 or WAV).

```
Convert to Audio
     Format = MP3
```

▲
VALUE
▼
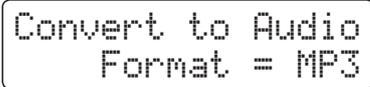
5. Starting the Conversion

Press the PLAY/STOP button.

The LED indicators for the REC and PLAY/STOP buttons will turn on, and conversion will start.

The conversion status will also be shown in the LCD display.

PLAY/STOP

```
Song000.MID
 0000 Convert
```

* Notes played on the keyboard will also be recorded to the audio file.

* When the end of the song is reached, the conversion will stop and the save confirmation screen will be shown automatically.

Recorder

7 Converting a Song to an Audio file

The CN35 digital piano allows recorder songs stored in internal memory to be played back and saved (converted) as an audio file to a USB device in either MP3 or WAV format.

1. Selecting a song

After recording a song to internal memory:

Connect a USB memory device to the USB port.

Press the PLAY/STOP button, then press the MENU ▲ button to select the 'Int. Player' function.

The Internal Song Player screen will be shown in the LCD display.

```
Song1   Part=1*
  1-1        ♩=120
```
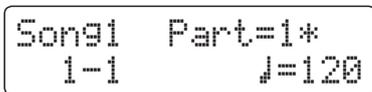
Press the REW or FF buttons to select the desired internal song memory, and the ▼ or ▲ VALUE buttons to select the desired part(s).
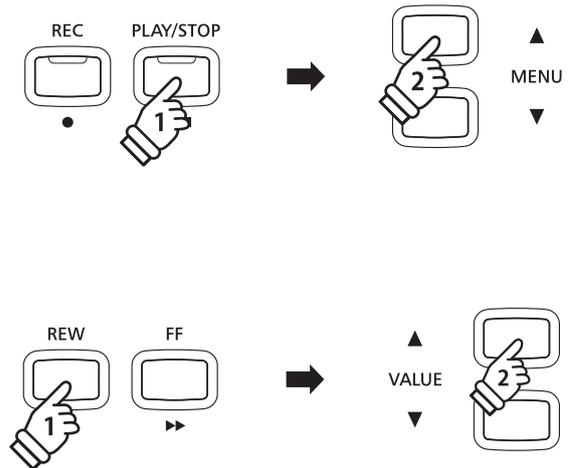
2. Selecting the Convert to Audio function

Press the USB button.

The Convert to Audio function will be shown in the LCD display.

```
Convert to Audio
    Format = MP3
```
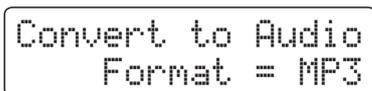
Press the ▼ or ▲ VALUE buttons to select the desired audio file format for the converted song.
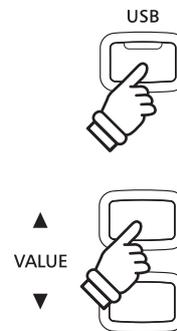
3. Starting the conversion

Press the PLAY/STOP button.

The LED indicators for the REC and PLAY/STOP buttons will turn on, and conversion will start.

The conversion status will also be shown in the LCD display.

```
Song1   Part=1*
 00'00" Convert
```
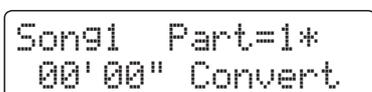
* Notes played on the keyboard will also be recorded to the audio file.

* When the end of the song is reached, the conversion will stop and the save confirmation screen will be shown automatically.

4. Naming and saving the converted audio file

Please follow the 'Recording an Audio File' instructions on page 52 from step 4.

Recorder

8 Deleting an Audio/MIDI file

This function is used to delete MP3/WAV audio files or MIDI song files stored on a USB device.

Once a file has been deleted from the USB device it cannot be recovered.

1. Entering USB playback mode

Connect a USB memory device to the USB port.

Press the PLAY/STOP button, then press the MENU ▼ button to select the 'USB Player' function.

The file selection screen will be shown in the LCD display.

* Please refer to page 53 for information about the file selection screen.
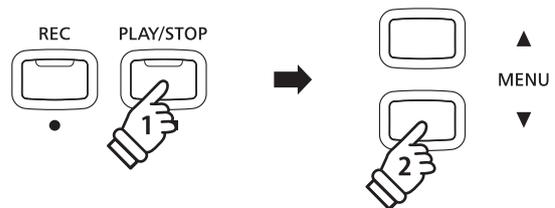
2. Selecting the audio/MIDI file to be deleted.

Press the ▼ or ▲ VALUE buttons to move the selection cursor, then press the MENU ▲ button to select the audio/MIDI file.

The USB player screen will be shown in the LCD display.

```
Audio-001.MP3
 00'00"   Vol.=5
```
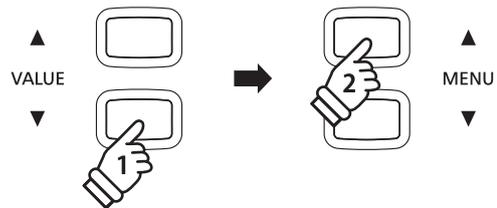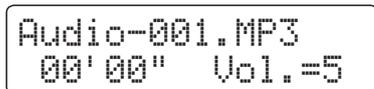
3. Deleting the selected audio/MIDI file

Press the REC button and PLAY/STOP buttons simultaneously.

The LED indicators for the REC and PLAY/STOP buttons will start to flash, and the Delete screen will be shown in the LCD display.
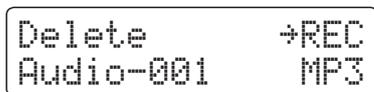
```
Delete       →REC
Audio-001     MP3
```

Press the REC button.

A confirmation message will be shown in the LCD display, prompting to confirm or cancel the erase operation.

```
Are you sure?
    →Press VALUE▲
```

Press the VALUE ▲ button to confirm the erase operation and return to the Internal Song Player screen.

Press the PLAY/STOP button to to cancel the erase operation.

Recorder

65
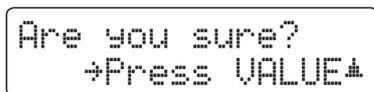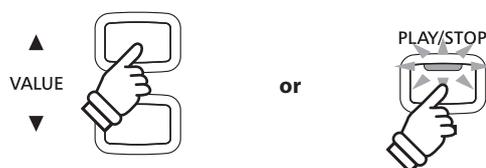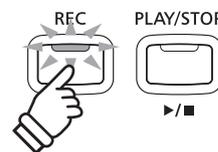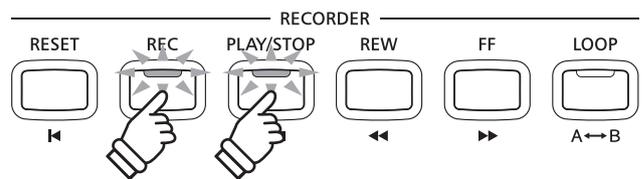
USB Menu

The USB Menu contains functions to load/save registration memories and recorder songs from/to a USB memory device. This menu also allows files to be renamed and deleted, and for the USB memory device to be formatted.

■ USB Menu functions

Page no.	Function	Description
1	Load Int. Song	Load a recorder song from a USB memory device into the instrument's internal memory.
2	Load Regist	Load registration memories (single or all) from a USB memory device into the instrument.
3	Save SMF Song	Save a recorder song stored in internal memory to a USB memory device as an SMF (MIDI) file.
4	Save Int. Song	Save a recorder song stored in internal memory to a USB memory device.
5	Save Regist	Save registration memories (single or all) from the instrument to a USB memory device.
6	Rename File	Rename a file stored on a USB memory device.
7	Delete File	Delete a file stored on a USB memory device.
8	Format USB	Format a USB memory device, erasing all stored data.

1. Entering the USB Menu

Connect a USB memory device to the USB port.

Press the USB button.

The LED indicator for the USB button will turn on, and the first page of the USB Menu will be shown in the LCD display.

```
1 Load Int. Song
   →Press VALUE▲
```

2. Selecting the desired USB Menu function

Press the ▼ or ▲ MENU buttons to cycle through the different USB Menu function pages.

```
3 Save SMF Song
   →Press VALUE▲
```
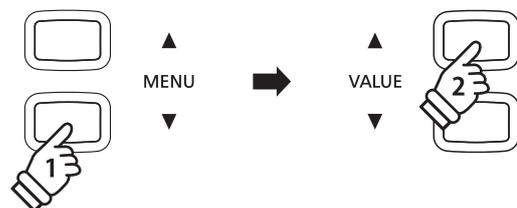
Press the VALUE ▲ button to select the function.

3. Exiting the USB Menu

Press the USB button to exit the USB Menu.

The LED indicator for the USB button will turn off, and the instrument will return to normal playing mode.

1 Load Internal Song

The Load Internal Song function is used to load recorder songs stored on a USB memory device into the instrument's internal memory.

1. Selecting the Load Int. Song function

Connect a USB memory device, then press the USB button to enter the USB Menu.

Press the ▼ or ▲ MENU buttons then the VALUE ▲ button to select the Load Int. Song function.

The file selection screen will be shown in the LCD display, listing song files stored on the USB memory device.

* Please refer to page 53 for information about the file selection screen.

```
1 Load Int. Song
    →Press VALUE▲
```

⬇

```
▶Kendo Strut KSO
 FnkyMiracle KSO
```

Recorder song

2. Selecting the song file to be loaded

Press the ▼ or ▲ VALUE buttons to move the selection cursor, then press the MENU ▲ button to select the song file.

The memory selection screen will be shown in the LCD display.

```
▶FnkyMiracle KSO
 Simple Song KSO
```

3. Selecting the song memory

Press the ▼ or ▲ VALUE buttons to select the internal song memory for the song to be loaded into.

* If a song memory contains song data, a � symbol will be shown.

```
Load to:    →REC
= Song1✳
```

Contains song data

4. Loading the selected song

Press the REC button to load the selected song.

A confirmation message will be shown in the LCD display.

Press the VALUE ▲ button to confirm the load operation.
Press the PLAY/STOP button to to cancel the load operation.

To play back the loaded song, please refer to the 'Playing a Song' instructions on page 48.

```
Are you sure?
    →Press VALUE▲
```

⬇

```
Completed.
```

5. Exiting the Load Int. Song function

Press the USB button to exit the Load Int. Song function.

The LED indicator for the USB button will turn off, and the instrument will return to normal playing mode.

USB Functions

2 Load Registration

The Load Registration function is used to load registration memories stored on a USB memory device into the instrument's internal memory. There are two types of registration file: 'Single' and 'All'. Note that only registration files saved on the CN34 or CN35 digital piano can be loaded.

■ Registration file types

Registration type	Description	File extension
Single	A file containing a single registration memory.	KM6
All	A file containing all 18 registration memories.	KM3

1. Selecting the Load Regist function

Connect a USB memory device, then press the USB button to enter the USB Menu.

Press the ▼ or ▲ MENU buttons then the VALUE ▲ button to select the Load Regist function.

```
2 Load Regist
   →Press VALUE▲
```

The file selection screen will be shown in the LCD display, listing the registration files stored on the USB memory device.

* Please refer to page 53 for information about the file selection screen.

```
▶Rhodes+Bass KM6
 PianoStrngs KM6
```
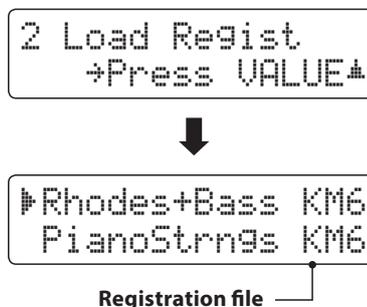
Registration file

2. Selecting the registration file to be loaded

Press the ▼ or ▲ VALUE buttons to move the selection cursor, then press the MENU ▲ button to select the registration file.

The memory selection screen will be shown in the LCD display.

```
▶Rhodes+Bass KM6
 PianoStrngs KM6
```
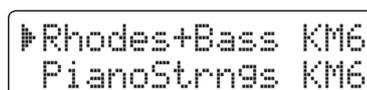
3. Selecting the registration memory

Press the ▼ or ▲ VALUE buttons to select the registration memory for the registration to be loaded into.

* If an 'All Registration' file is selected, this step will be skipped.

```
Load to:    →REC
= 1▒
```
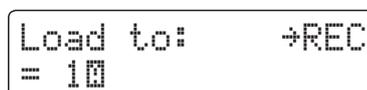
4. Loading the selected registration

Press the REC button to load the selected registration.

A confirmation message will be shown in the LCD display.

Press the VALUE ▲ button to confirm the load operation.
Press the PLAY/STOP button to to cancel the load operation.

To use the loaded registration, please refer to the Registration instructions on page 34.

```
Are you sure?
   →Press VALUE▲
```

```
Completed.
```
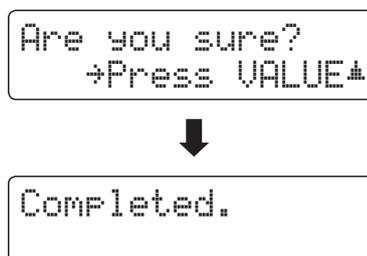
3 Save SMF Song

The Save SMF Song function is used to save recorder songs stored in the instrument's internal memory to a USB memory device as a Standard MIDI File (SMF).

1. Selecting the Save SMF Song function

Connect a USB memory device, then press the USB button to enter the USB Menu.

Press the ▼ or ▲ MENU buttons then the VALUE ▲ button to select the Save SMF Song function.

The song selection screen will be shown in the LCD display.

```
3 Save SMF Song
   →Press VALUE▲
```

```
Save SMF     →REC
= Song1*
```

2. Selecting the song to be saved

Press the ▼ or ▲ VALUE buttons to select the internal song memory to be saved.

Press the REC button to continue.

The filename entry screen will be shown in the LCD display.

```
Save SMF     →REC
= Song3*
```

```
Filename:    →REC
 Song-000    MID
```

3. Naming the SMF song

Press the ▼ or ▲ VALUE buttons to cycle through the characters, and the ▼ or ▲ MENU buttons to move the cursor.

* Save files are limited to a maximum name length of 11 characters.

* The saved SMF file will be stored in the root folder of the USB memory device. It is not possible to store the file in a different folder.

```
Filename:    →REC
 Streetlife  MID
```

4. Saving the SMF song

Press the REC button again to save the SMF song with the specified filename.

A confirmation message will be shown in the LCD display.

Press the VALUE ▲ button to confirm the save operation.
Press the PLAY/STOP button to to cancel the save operation.

```
Are you sure?
   →Press VALUE▲
```

```
Completed.
```

5. Exiting the Save SMF Song function

Press the USB button to exit the Save SMF Song function.

The LED indicator for the USB button will turn off, and the instrument will return to normal playing mode.

4 Save Internal Song

The Save Internal Song function is used to save recorder songs stored in the instrument's internal memory to a USB memory device in the CN35's native song format.

1. Selecting the Save Int. Song function

Connect a USB memory device, then press the USB button to enter the USB Menu.

Press the ▼ or ▲ MENU buttons then the VALUE ▲ button to select the Save Int. Song function.

The song selection screen will be shown in the LCD display.

```
4 Save Int. Song
   →Press VALUE▲
```

⬇

```
Save Song    →REC
= Song1*
```

2. Selecting the song to be saved

Press the ▼ or ▲ VALUE buttons to select the internal song memory to be saved.

Press the REC button to continue.

The filename entry screen will be shown in the LCD display.

```
Save Song    →REC
= Song3*
```

⬇

```
Filename:    →REC
 Song-000    KSO
```

3. Naming the song

Press the ▼ or ▲ VALUE buttons to cycle through the characters, and the ▼ or ▲ MENU buttons to move the cursor.

* Save files are limited to a maximum name length of 11 characters.

* The saved song will be stored in the root folder of the USB memory device. It is not possible to store the file in a different folder.

```
Filename:    →REC
 Streetlife  KSO
```

4. Saving the song

Press the REC button again to save the recorded song with the specified filename.

A confirmation message will be shown in the LCD display.

Press the VALUE ▲ button to confirm the save operation.
Press the PLAY/STOP button to to cancel the save operation.

```
Are you sure?
   →Press VALUE▲
```

⬇

```
Completed.
```

5. Exiting the Save Song function

Press the USB button to exit the Save Song function.

The LED indicator for the USB button will turn off, and the instrument will return to normal playing mode.

USB Functions

5 Save Registration

The Save Registration function is used to save registration memories stored in the instrument to a USB memory device. There are two types of registration file: 'Single' and 'All'.

■ Registration file types

Registration type	Description	File extension
Single	A file containing a single registration memory.	KM6
All	A file containing all 18 registration memories.	KM3

1. Selecting the Save Regist function

Connect a USB memory device, then press the USB button to enter the USB Menu.

Press the ▼ or ▲ MENU buttons then the VALUE ▲ button to select the Save Regist function.

The memory selection screen will be shown in the LCD display.

```
5 Save Regist
   →Press VALUE▲
```

```
Save Regist →REC
= All
```

2. Selecting the registration memory to be saved

Press the ▼ or ▲ VALUE buttons to select the registration memory to be saved.

* The 'All' option will save all registration memories to a single file.

Press the REC button to continue.

The filename entry screen will be shown in the LCD display.

```
Save Regist →REC
= 2▊
```

```
Filename:    →REC
 OneReg-000   KM6
```

3. Naming the registration file

Press the ▼ or ▲ VALUE buttons to cycle through the characters, and the ▼ or ▲ MENU buttons to move the cursor.

* Save files are limited to a maximum name length of 11 characters.

* The saved registration will be stored in the root folder of the USB memory device. It is not possible to store the file in a different folder.

```
Filename:    →REC
 DonnyH_      KM6
```

4. Saving the registration file

Press the REC button again to save the recorded registration with the specified filename.

A confirmation message will be shown in the LCD display.

Press the VALUE ▲ button to confirm the save operation.
Press the PLAY/STOP button to to cancel the save operation.

```
Are you sure?
   →Press VALUE▲
```

```
Completed.
```

USB Functions

71

6 Rename File

The Rename File function is used to rename song, audio, and registration files stored on a USB memory device.

1. Selecting the Rename File function

Connect a USB memory device, then press the USB button to enter the USB Menu.

Press the ▼ or ▲ MENU buttons then the VALUE ▲ button to select the Rename File function.

```
6 Rename
   →Press VALUE▲
```

The file selection screen will be shown in the LCD display, listing song, audio, and registration files stored on the USB memory device.

```
▶Audio-002    MP3
 Audio-003    MP3
```

* Please refer to page 53 for information about the file selection screen.
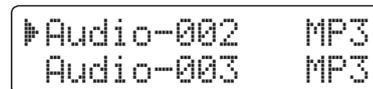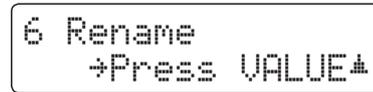
2. Selecting the file to be renamed

Press the ▼ or ▲ VALUE buttons to move the selection cursor, then press the MENU ▲ button to select the file.

The filename entry screen will be shown in the LCD display.

```
▶Audio-003    MP3
 Audio-004    MP3
```
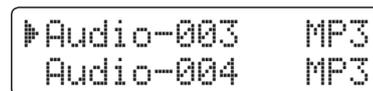
3. Renaming the selected file

Press the ▼ or ▲ VALUE buttons to cycle through the characters, and the ▼ or ▲ MENU buttons to move the cursor.

* Files are limited to a maximum name length of 11 characters.

```
Filename:    →REC
 James'G      MP3
```
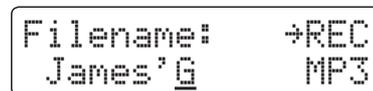
4. Confirming the rename

Press the REC button to rename the file.

A confirmation message will be shown in the LCD display.

```
Are you sure?
   →Press VALUE▲
```

Press the VALUE ▲ button to confirm the rename operation.
Press the PLAY/STOP button to to cancel the rename operation.

```
Completed.
```
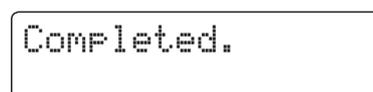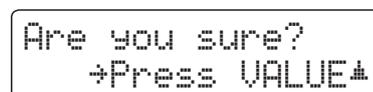
5. Exiting the Rename File function

Press the USB button to exit the Rename File function.

The LED indicator for the USB button will turn off, and the instrument will return to normal playing mode.

7 Delete File

The Delete File function is used to delete song, audio, and registration files stored on a USB memory device. Once a file has been deleted from the USB device it cannot be recovered.

1. Selecting the Delete File function

Connect a USB memory device, then press the USB button to enter the USB Menu.

Press the ▼ or ▲ MENU buttons then the VALUE ▲ button to select the Delete File function.

The file selection screen will be shown in the LCD display, listing song, audio, and registration files stored on the USB memory device.

* Please refer to page 53 for information about the file selection screen.

```
7 Delete
   →Press VALUE▲
```

```
▶Audio-002    MP3
 Audio-003    MP3
```

2. Selecting the file to be deleted

Press the ▼ or ▲ VALUE buttons to move the selection cursor, then press the MENU ▲ button to select the file.

```
▶Audio-003    MP3
 Audio-004    MP3
```

3. Confirming the delete

A confirmation message will be shown in the LCD display.

Press the VALUE ▲ button to confirm the delete operation.
Press the PLAY/STOP button to to cancel the delete operation.

```
Are you sure?
   →Press VALUE▲
```

```
Completed.
```

4. Exiting the Delete File function

Press the USB button to exit the Delete File function.

The LED indicator for the USB button will turn off, and the instrument will return to normal playing mode.

8 Format USB

The Format USB function is used to format the connected USB memory device, erasing all stored data.

> ⚠ **The USB Format function will erase all data stored on the connected USB memory device. Exercise caution when using this function in order to prevent accidental data loss.**

1. Selecting the Format USB function

Connect a USB memory device, then press the USB button to enter the USB Menu.

Press the ▼ or ▲ MENU buttons then the VALUE ▲ button to select the Format USB function.

An initial confirmation message will be shown in the LCD display.

```
8 Format
   →Press VALUE▲
```

```
Format ?
Yes→REC  No→STOP
```

2. Confirming the format operation (initial confirmation)

Press the REC button to confirm the format operation.
Press the PLAY/STOP button to to cancel the format operation.

If the REC button is pressed, a final confirmation message will be shown in the LCD display.

```
Are you sure?
   →Press VALUE▲
```

3. Confirming the format operation (final confirmation)

Press the VALUE ▲ button to confirm the format operation.
Press the PLAY/STOP button to to cancel the format operation.

```
Are you sure?
   →Press VALUE▲
```

```
Formatting...
           30%
```

```
Completed.
```

4. Exiting the Format USB function

Press the USB button to exit the Format USB function.

The LED indicator for the USB button will turn off, and the instrument will return to normal playing mode.

USB Functions

Settings Menus

The Settings menus contain a variety of options to adjust the CN35's operation and sound. Settings are grouped by category, providing convenient access to relevant controls. Once adjusted, settings can be stored to one of the instrument's 18 registration memories, or selected as the default power-on settings with the Startup Setting function.

■ Entering the Settings menus

While the normal playing mode screen is shown in the LCD display:

Press the ▼ or ▲ MENU buttons.

The first settings menu (Basic Settings) will be shown in the LCD display.

```
1 Basic Settings
  →Press VALUE▲
```
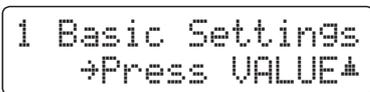
Press the ▼ or ▲ MENU buttons to cycle through the different settings menus, then press the VALUE ▲ button to enter the selected menu.
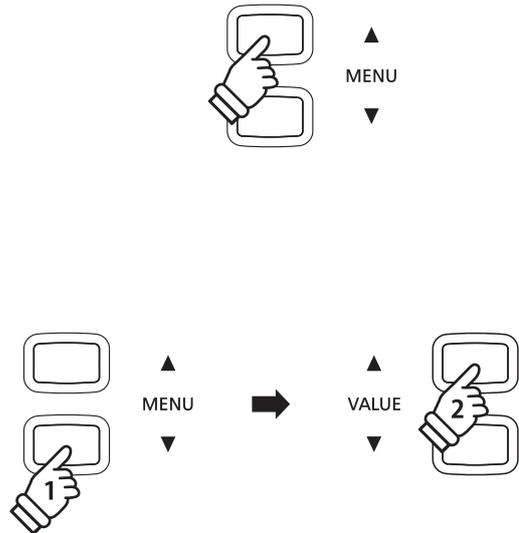
■ Exiting the Settings menus

Press the ▼ and ▲ MENU buttons simultaneously to return to the main settings menu.

Press a SOUND button to return to normal playing mode.
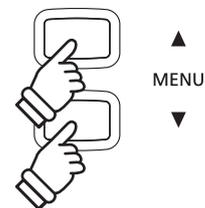
■ Overview of Settings menus

1. Basic Settings

Tone Control, Speaker Volume, Phones Volume, Line Out Volume,

Audio Rec Gain, Tuning, Damper Hold, Four Hands,

Startup Setting, Factory Reset

2. Virtual Technician

Voicing, Damper Resonance, Damper Noise, String Resonance,

Key-off Effect, Fall-back Noise, Hammer Delay, Topboard,

Decay Time, Minimum Touch, Temperament, Stretch Tuning,

Stretch Curve, User Tuning, Temperament Key, User Temperament,

User Key Volume, Half-Pedal Adjust, Soft Pedal Depth

3. Key Settings

Lower Octave Shift, Lower Pedal On/Off, Layer Octave Shift,

Layer Dynamics

4. MIDI Settings

MIDI Channel, Send Program Change No., Local Control,

Transmit Program Change No., Multi-timbral Mode, Channel Mute

5. Power Settings

Auto Power Off

Settings

Basic Settings

The Basic settings menu contains settings to adjust the pitch, tuning, and general sound of the instrument. This menu also allows favourite panel settings to be stored, or reset back to the original factory configuration.

▌Basic Settings

Page no.	Setting	Description	Default setting
1-1	Tone Control	Change the tone settings of the instrument's sound.	Off
1-2	Speaker Volume	Change the maximum volume level of the speaker output.	Normal
1-3	Phones Volume	Change the maximum volume level of the headphones output.	Normal
1-4	Line Out Volume	Adjust the output volume of the Line Out connectors.	10
1-5	Audio Rec Gain	Increase or decrease the recording level of the MP3/WAV audio recorder.	0 dB
1-6	Tuning	Increase or decrease the pitch of the instrument in 0.5 Hz steps.	440.0 Hz
1-7	Damper Hold	Change the effect of pressing the sustain pedal on organ, string, etc. sounds.	Off
1-8	Four Hands	Enable the 'Four Hands Mode' function.	Off
1-9	Startup Setting	Store current panel settings as the default (power-on) configuration.	-
1-10	Factory Reset	Restore all panel settings to the original factory configuration.	-

* Default settings will be shown in the first LCD display illustration (i.e. Step 1) for each setting explanation below.

▌Entering the Basic Settings menu

While the normal playing mode screen is shown in the LCD display:

Press the ▼ or ▲ MENU buttons.

The Basic Settings page will be shown in the LCD display.

```
1 Basic Settings
  →Press VALUE▲
```

Press the VALUE ▲ button to enter the Basic Settings menu.

The first page of the Basic Settings menu will be shown in the LCD display
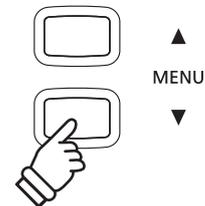
▌Selecting the desired setting

After entering the Basic Settings menu:

Press the ▼ or ▲ MENU buttons to cycle through the different settings pages.

Settings page no.

```
1-1 Tone Control
= Off
```

1-1 Tone Control

The Tone Control function allows the overall sound character of the CN35 digital piano to be adjusted to ensure the best sound quality within the area that the instrument is located. There are six different preset Tone Control types available, with an additional 'User' setting allowing finer control over the different frequency bands.

■ Tone Control types

Tone Control type	Description
Off (default)	The Tone Control is turned off, and the sound character is unchanged.
Brilliance	Adjust the overall brightness of the sound, independently of the 'Voicing' Virtual Technician setting.
Loudness	Emphasises frequencies to retain the instrument's sound character when playing at low volume levels.
Bass Boost	Emphasises low-range frequencies, creating a deeper sound.
Treble Boost	Emphasises high-range frequencies, creating a brighter sound.
Mid Cut	Reduces mid-range frequencies, creating a clearer sound.
User	Allows the low, mid, and high-range frequency bands to be adjusted separately.

1. Selecting the Tone Control setting

After entering the Basic Settings menu (page 76):

The Tone Control setting will be selected automatically.

```
1-1 Tone Control
= Off
```

2. Changing the Tone Control type

Press the ▼ or ▲ VALUE buttons to cycle through the different Tone Control types.

* Any changes made to the Tone Control type or User Tone Control settings will remain until the power is turned off.

* Preferred Tone Control settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
1-1 Tone Control
= Off
```
⬇
```
1-1 Tone Control
= Bass Boost
```

3. Exiting the Tone Control setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Tone Control setting and return to the main settings menu.

Brilliance

The Brilliance setting allows the overall brightness of the CN35 digital piano's sound to be adjusted, independently of the 'Voicing' Virtual Technician setting.

1. Entering the Brilliance setting mode

Press the ▼ or ▲ VALUE buttons to select the Brilliance setting mode.

Then press the ▼ or ▲ MENU button, Brilliance setting screen will be shown in the LCD display.

```
1-1 Tone Control
= Brilliance
```

⬇

```
1-1 Brilliance
=  0
```

2. Adjusting the Brilliance setting

Press the ▼ or ▲ VALUE buttons to adjust the Brilliance setting.

* Brilliance can be adjusted within the range of -10 - +10.

```
1-1 Brilliance
= +5
```

3. Exiting the Brilliance setting

Press the ▼ or ▲ MENU buttons simultaneously to exit the Brilliance setting and return to the main settings menu.

User EQ

■ User EQ setting

User EQ bands	Description
Low	Adjusts the low range frequency band (20 - 100 Hz).
Mid-low	Adjusts the mid-low range frequency band (355 - 1000 Hz).
Mid-high	Adjusts the mid-high range frequency band (1120 - 3150 Hz).
High	Adjusts the high range frequency band (5000 - 20000 Hz).

1. Selecting the User EQ setting

While the Tone Control type screen is shown in the LCD display:

Press the ▼ or ▲ VALUE buttons to cycle through the different Tone Control types. When the 'User' type is selected, press the MENU ▲ button.

The User EQ setting screen will be shown in the LCD display.

```
1-1 Tone Control
= User
```

⬇

```
1-1 User Low
=   0 dB
```
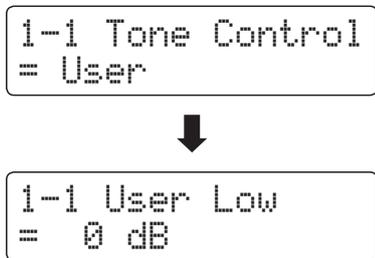
2. Adjusting the User EQ bands (low/mid/high)

Press the ▼ or ▲ MENU buttons to cycle through the different User EQ bands, then press the ▼ or ▲ VALUE buttons to adjust the value of the selected band.

* Each User EQ band can be adjusted within the range of –6 dB - +6 dB

```
1-1 User Low
=   0 dB
```

⬇

```
1-1 User High
= +6 dB
```
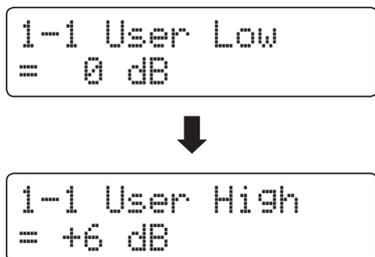
3. Exiting the User EQ setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the User EQ settings screen and return to the main settings menu.

1-2 Speaker Volume

The Speaker Volume setting allows the maximum volume level of the CN35 digital piano's speaker output to be reduced, providing finer adjustment control over the master volume. This setting can also function as a volume limiter, preventing the instrument from being played too loudly in the home or classroom etc.

* This setting does not affect the headphones or Line Out volume.

■ Speaker Volume settings

Speaker Volume	Description
Normal (default)	The instrument's speakers will output sound at the normal volume level.
Low	The instrument's speakers will output sound at a reduced volume level.

1. Selecting the Speaker Volume setting

After entering the Basic Settings menu (page 76):

Press the ▼ or ▲ MENU buttons to select the Speaker Volume setting.

```
1-2 Speaker Vol.
= Normal
```

2. Changing the Speaker Volume setting

Press the ▼ or ▲ VALUE buttons to alternate between 'Normal' and 'Low' speaker volume settings.

* Any changes made to the Speaker Volume setting will remain until the power is turned off.

* Preferred Speaker Volume settings will not be stored to a Registration memory, but can be stored to the instrument's Startup Setting for convenient recall. Please refer to page 87 for more information.

```
1-2 Speaker Vol.
= Normal
```
↓
```
1-2 Speaker Vol.
= Low
```

3. Exiting the Speaker Volume setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Speaker Volume setting and return to the main settings menu.

Settings

1-3 Phones Volume

The Phones Volume setting allows the maximum volume level of the headphones output to be increased.

The default setting for Phones Volume is 'Normal' in order to protect an individual's ears from excessive volume levels. The 'High' setting may be selected when using headphones with a high impedance, or in situations where it is desirable to increase the maximum volume level of the headphones output.

* This setting does not affect the speaker or Line Out volume.

■Phones Volume settings

Phones Volume	Description
Normal (default)	The instrument's headphone connectors will output sound at the normal volume level.
High	The instrument's headphone connectors will output sound at an increased volume level.

1. Selecting the Phones Volume setting

After entering the Basic Settings menu (page 76):

Press the ▼ or ▲ MENU buttons to select the Phones Volume setting.

```
1-3 Phones Vol.
= Normal
```

2. Changing the Phones Volume setting

Press the ▼ or ▲ VALUE buttons to alternate between 'Normal' and 'High' phones volume settings.

* Any changes made to the Phones Volume setting will remain until the power is turned off.

* Preferred Phones Volume settings will not be stored to a Registration memory, but can be stored to the instrument's Startup Setting for convenient recall. Please refer to page 87 for more information.

```
1-3 Phones Vol.
= Normal
```
⬇
```
1-3 Phones Vol.
= High
```

3. Exiting the Phones Volume setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Phones Volume setting and return to the main settings menu.

1-4 Line Out Volume

The Line Out Volume setting allows the level of the instrument's Line Out output to be adjusted. This setting may be useful when connecting the CN35 digital piano to mixers and other audio equipment.

* This setting does not affect the speaker or headphone volume.

1. Selecting the Line Out Volume setting

After entering the Basic Settings menu (page 76):

Press the ▼ or ▲ MENU buttons to select the Line Out Volume setting.

```
1-4 LineOut Vol.
= 10
```

2. Adjusting the Line Out Volume setting

Press the ▼ or ▲ VALUE buttons to adjust the Line Out Volume setting.

* The Line Out Volume setting can be adjusted within the range of 0 (no sound) to 10 (full volume).

* Any changes made to the Line Out Volume setting will remain until the power is turned off.

* Preferred Line Out Volume settings will not be stored to a Registration memory, but can be stored to the instrument's Startup Setting for convenient recall. Please refer to page 87 for more information.

```
1-4 LineOut Vol.
= 10
```

⬇

```
1-4 LineOut Vol.
=  3
```

3. Exiting the Line Out Volume setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Line Out Volume setting and return to the main settings menu.

∎ Jump to Line Out Volume setting shortcut

It is also possible to access the Line Out Volume setting directly using the following shortcut:

Press the ▼ and ▲ MENU buttons simultaneously while sound name is shown in the LCD display in normal playing mode.

The Line Out Volume setting will briefly be shown in the LCD display.

```
LineOut Vol.
= 10
```

▲
MENU
▼

Press the ▼ or ▲ VALUE buttons to adjust the Line Out Volume setting.

To exit the Line Out Volume setting and return to the previous screen, press a SOUND button.

▲
VALUE
▼
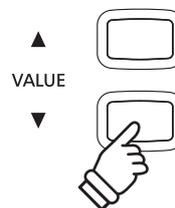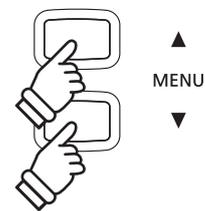
1-5 Audio Recorder Gain

The Audio Recorder Gain setting allows the recording level of MP3/WAV audio files to be adjusted. While the instrument's default audio recorder level is optimised to capture the broad dynamic range of a grand piano, there may be occasions where it is desirable to increase or decrease this gain setting for certain types of music.

1. Selecting the Audio Recorder Gain setting

After entering the Basic Settings menu (page 76):

Press the ▼ or ▲ MENU buttons to select the Audio Recorder Gain setting.

```
1-5 AudioRecGain
=   0 dB
```

2. Adjusting the Audio Recorder Gain setting

Press the ▼ or ▲ VALUE buttons to adjust the Audio Recorder Gain setting.

* The Audio Recorder Gain can be adjusted within the range of 0 dB - +15 dB.

* Increasing the Audio Recorder Gain may result in distorted recordings when playing loud/fortissimo passages.

* Any changes made to the Audio Recorder Gain setting will remain until the power is turned off.

* Preferred Audio Recorder Gain settings will not be stored to a Registration memory, but can be stored to the instrument's Startup Setting for convenient recall. Please refer to page 87 for more information.

```
1-5 AudioRecGain
=   0 dB
```

⬇

```
1-5 AudioRecGain
= +10 dB
```

3. Exiting the Audio Recorder Gain setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Audio Recorder Gain setting and return to the main settings menu.

Settings

1-6 Tuning

The Tuning setting allows the overall pitch of the CN35 digital piano to be raised and lowered in 0.5 Hz steps, and may therefore prove useful when playing with other pitched instruments.

1. Selecting the Tuning setting

After entering the Basic Settings menu (page 76):

Press the ▼ or ▲ MENU buttons to select the Tuning setting.

```
1-6 Tuning
= 440.0 Hz
```

2. Adjusting the Tuning setting

Press the ▼ or ▲ VALUE buttons to decrease or increase the value of the Tuning setting in 0.5 Hz steps.

* The Tuning setting can be adjusted within the range of 427.0 Hz - 453.0 Hz.

* Any changes made to the Tuning setting will remain until the power is turned off.

* Preferred Tuning settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
1-6 Tuning
= 440.0 Hz
```

```
1-6 Tuning
= 437.5 Hz
```

3. Exiting the Tuning setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Tuning setting and return to the main settings menu.

Settings

1-7 Damper Hold

The Damper Hold setting is used to determine whether sounds such as organ or strings should be sustained continuously when the sustain (damper) pedal is pressed, or whether these sounds should decay, naturally.

■ Damper Hold settings

Damper Hold	Description
Off (default)	Organ, string, etc. sounds will gradually decay, even while the sustain pedal is pressed.
On	Organ, string, etc. sounds will be sustained continuously while the sustain pedal is pressed.

1. Selecting the Damper Hold setting

After entering the Basic Settings menu (page 76):

Press the ▼ or ▲ MENU buttons to select the Damper Hold setting.

```
1-7 Damper Hold
= Off
```

2. Changing the Damper Hold setting

Press the ▼ or ▲ VALUE buttons to turn the Damper Hold setting on or off.

* Any changes made to the Damper Hold setting will remain until the power is turned off.

* Preferred Damper Hold settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
1-7 Damper Hold
= Off
```

⬇

```
1-7 Damper Hold
= On
```

3. Exiting the Damper Hold setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Damper Hold setting and return to the main settings menu.

1-8 Four Hands

The Four Hands setting provides an alternative method to enabling the Four Hands Mode function, and may prove useful in teaching environments or situations where this function should be enabled automatically every time the CN35 digital piano is turned on.

* Please refer to page 23 for information about the Four Hands Mode function.

■ Four Hands settings

Four Hands	Description
Off (default)	Four Hands Mode will be turned off by default.
On	Four Hands Mode will be turned on by default.

1. Selecting the Four Hands setting

After entering the Basic Settings menu (page 76):

Press the ▼ or ▲ MENU buttons to select the Four Hands setting.
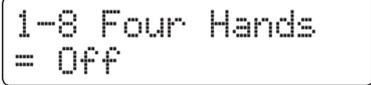
```
1-8 Four Hands
= Off
```

2. Changing the Four Hands setting

Press the ▼ or ▲ VALUE buttons to turn the Four Hands setting on or off.

* When enabled, the LED indicator for the SPLIT button will start to flash.

* Any changes made to the Four Hands setting will remain until the power is turned off.

* Preferred Four Hands settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.
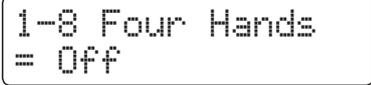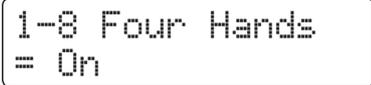
```
1-8 Four Hands
= Off
```
⬇
```
1-8 Four Hands
= On
```

3. Exiting the Four Hands setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Four Hands setting and return to the main settings menu.

Settings

1-9 Startup Setting

The Startup Setting function allows preferred panel settings to be stored in the instrument's memory, and automatically recalled as the default settings every time the CN35 digital piano is turned on.

▪Settings stored in Startup Setting

General
Selected sound
Dual Mode / Split Mode (sounds, split point)
Reverb, Effects, Touch, Transpose (Key Transpose only)
Metronome (Beat, Tempo, Volume)

Settings
Basic Settings
Virtual Technician
Key Settings
MIDI Settings

* Auto Power Off setting is stored to Startup Setting automatically.

1. Selecting the Startup Setting function

After entering the Basic Settings menu (page 76):

Press the ▼ or ▲ MENU buttons to select the Startup Setting function.

```
1-9 StartUp Set.
Save? →Press REC
```

2. Storing current settings to Startup Setting

Press the REC button.

A confirmation message will be shown in the LCD display.

Press the VALUE ▲ button to confirm the store operation.
Press the PLAY/STOP button to to cancel the store operation.

* After storing the Startup Setting, the instrument will exit the settings menu and return to normal playing mode.

```
1-9 StartUp Set.
Save? →Press REC
```

⬇

```
Are you sure?
   →Press VALUE▲
```

⬇

```
Completed.
```

3. Exiting the Startup Setting function

Press the ▼ and ▲ MENU buttons simultaneously to exit the Startup Setting function and return to the main settings menu.

1-10 Factory Reset

The Factory Reset function clears any settings stored using the Startup Setting function above, restoring the CN35 digital piano back to its factory default settings.

* This function does not clear registration memories or recorder songs stored in internal memory.

1. Selecting the Factory Reset function

After entering the Basic Settings menu (page 76):

Press the ▼ or ▲ MENU buttons to select the Factory Reset function.

```
1-10 FactryReset
Reset?→Press REC
```

2. Restoring factory settings

Press the REC button.

A confirmation message will be shown in the LCD display.

Press the VALUE ▲ button to confirm the reset operation.
Press the PLAY/STOP button to to cancel the reset operation.

* After performing a factory reset, the instrument will exit the settings menu and return to normal playing mode.

```
1-10 FactryReset
Reset?→Press REC
```
⬇
```
Are you sure?
   →Press VALUE▲
```
⬇
```
Completed.
```

Virtual Technician

An experienced piano technician is essential to fully realise the potential of a fine acoustic piano. In addition to meticulously tuning each note, the technician also performs numerous regulation and voicing adjustments that allow the instrument to truly sing.

The Virtual Technician settings of the CN35 digital piano simulate these refinements digitally, allowing performers to shape various aspects of the instrument's character to suit their personal preferences.

■Virtual Technician

Page no.	Setting	Description	Default setting
2-1	Voicing	Adjust the tonal character of the instrument.	Normal
2-2	Damper Resonance	Adjust the resonance that is heard when pressing the damper pedal.	5
2-3	Damper Noise	Adjust the sound that is heard when pressing the damper pedal.	5
2-4	String Resonance	Adjust the resonance that is heard when notes are held.	5
2-5	Key-off Effect	Adjust the sound that is heard when keys are released.	5
2-6	Fall-back Noise	Adjust the sound that is heard when the key action falls back.	5
2-7	Hammer Delay	Adjust the delay of the hammer striking strings when playing pianissimo.	5
2-8	Topboard	Adjust the position of the grand piano topboard.	Open 3
2-9	Decay Time	Adjust the decay time of the piano sound while the keys are pressed.	5
2-10	Minimum Touch	Adjust the minimum key velocity required to produce a sound.	1
2-11	Temperament	Adjust the tuning system to suit Renaissance and Baroque periods etc.	Equal Temp.
	Stretch Tuning	Specify whether stretch tuning should be turned On or Off.	Piano Only
	Stretch Curve	Adjust the level of stretch tuning for equal temperaments.	Normal
	User Tuning	Adjust the individual tuning of each of the 88 keys.	0
	Temperament Key	Adjust the key of the selected tuning system.	C
	User Temperament	Create a custom, user-defined tuning system.	-
2-12	User Key Volume	Adjust the individual volume of each of the 88 keys.	0
2-13	Half-Pedal Adjust	Adjust the point at which the damper pedal begins to sustain the sounds.	5
2-14	Soft Pedal Depth	Adjust the depth/effectiveness of the soft pedal.	5

* Default settings will be shown in the first LCD display illustration (i.e. Step 1) for each setting explanation below.

■ Entering the Virtual Technician menu

While the normal playing mode screen is shown in the LCD display:

Press the ▼ or ▲ MENU buttons to select the Virtual Technician menu.

```
2 Virtual Tech.
   →Press VALUE▲
```

Press the VALUE ▲ button to enter the Virtual Technician menu.

The first page of the Virtual Technician menu will be shown in the LCD display
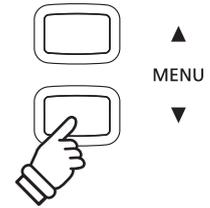
■ Selecting the desired setting

After entering the Virtual Technician menu:

Press the ▼ or ▲ MENU buttons to cycle through the different settings pages.

Settings page no.

```
2-1 Voicing
=Normal
```

2-1 Voicing

The Voicing setting allows the tonal character of the CN35 digital piano to be set to one of six different types.

* This Virtual Technician setting will affect all sounds.

■ Voicing types

Voicing type	Description
Normal (default)	The normal tonal character of an acoustic piano throughout the entire dynamic range.
Mellow 1	A softer, more mellow tonal character throughout the entire dynamic range.
Mellow 2	An even soften tonal character than Mellow 1.
Dynamic	A tonal character that changes dramatically from mellow to bright, depending on the strength of key strike.
Bright 1	A bright tonal character throughout the entire dynamic range.
Bright 2	An even brighter tonal character than Bright 1.

1. Selecting the Voicing setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the Voicing setting.

```
2-1 Voicing
=Normal
```

2. Changing the Voicing value

Press the ▼ or ▲ VALUE buttons to cycle through the different voicing types.

* Any changes made to the Voicing setting will remain until the power is turned off.

* Preferred Voicing settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
2-1 Voicing
=Normal
```
⬇
```
2-1 Voicing
=Dynamic
```

3. Exiting the Voicing setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Voicing setting and return to the main settings menu.

2-2 Damper Resonance

Pressing the damper pedal of an acoustic piano raises all dampers, allowing the strings to vibrate freely. When a note or chord is played on the piano with the sustain pedal pressed, not only will the strings of the notes played vibrate, but also the strings of other notes, vibrating in sympathetic resonance.

The CN35 digital piano recreates this phenomenon, with the Damper Resonance setting allowing the volume of this resonance sound to be adjusted.

* This Virtual Technician setting will affect acoustic piano sounds only.

1. Selecting the Damper Resonance setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the Damper Resonance setting.

```
2-2 Damper Reso.
= 5
```

2. Adjusting the Damper Resonance volume

Press the ▼ or ▲ VALUE buttons to adjust the volume of the Damper Resonance setting.

* The Damper Resonance volume can be adjusted within the range of Off, 1 - 10, with higher values resulting in a louder effect.

* Any changes made to the Damper Resonance setting will remain until the power is turned off.

* Preferred Damper Resonance settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
2-2 Damper Reso.
= 5
```

⬇

```
2-2 Damper Reso.
= 2
```

3. Exiting the Damper Resonance setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Damper Resonance setting and return to the main settings menu.

Settings

2-3 Damper Noise

When the damper pedal of an acoustic piano is pressed and released, it is often possible to hear the sound of the damper head touching and releasing the strings.

The CN35 digital piano reproduces this sound, with the Damper Noise setting allowing the volume of this sound to be adjusted.

* This Virtual Technician setting will affect acoustic piano sounds only.

1. Selecting the Damper Noise setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the Damper Noise setting.

```
2-3 Damper Noise
= 5
```

2. Adjusting the Damper Noise volume

Press the ▼ or ▲ VALUE buttons to adjust the volume of the Damper Noise setting.

* The Damper Noise volume can be adjusted within the range of Off, 1 - 10, with higher values resulting in a louder effect.

* Any changes made to the Damper Noise setting will remain until the power is turned off.

* Preferred Damper Noise settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
2-3 Damper Noise
= 5
```
⬇
```
2-3 Damper Noise
= 2
```

3. Exiting the Damper Noise setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Damper Noise setting and return to the main settings menu.

2-4 String Resonance

String Resonance refers to a phenomenon that exists in acoustic pianos whereby the strings of held notes resonate 'sympathetically' with other notes of the same harmonic series.

The CN35 digital piano recreates this phenomenon, with the String Resonance setting allowing the volume of this resonance to be adjusted.

* This Virtual Technician setting will affect acoustic piano sounds only.

■ Demonstrating String Resonance

To experience the string resonance phenomenon, gently hold down the 'C' key as shown in the illustration below, then press any of the keys marked with a ● symbol. In addition to the sound of each note played, it should also be possible to hear the strings of the first 'C' key resonating 'sympathetically', thus demonstrating String Resonance.
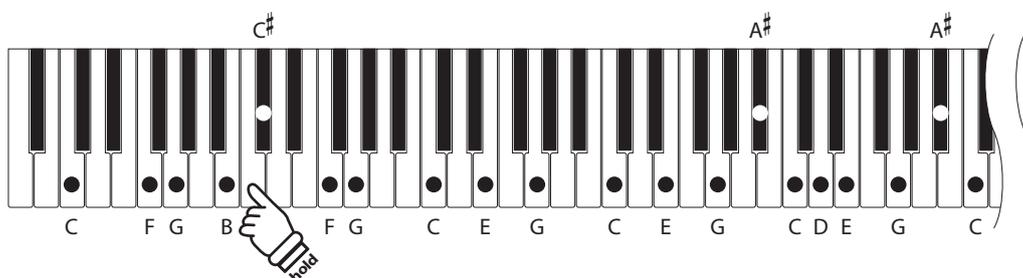
1. Selecting the String Resonance setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the String Resonance setting.

```
2-4 String Reso.
= 5
```

2. Adjusting the String Resonance volume

Press the ▼ or ▲ VALUE buttons to adjust the volume of the String Resonance setting.

* The String Resonance volume can be adjusted within the range of Off, 1 - 10, with higher values resulting in a louder effect.

* Any changes made to the String Resonance setting will remain until the power is turned off.

* Preferred String Resonance settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
2-4 String Reso.
= 5
```
⬇
```
2-4 String Reso.
= 8
```

3. Exiting the String Resonance setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the String Resonance setting and return to the main settings menu.

Settings

2-5 Key-off Effect

When playing an acoustic piano – particularly in the bass region of the keyboard – if a key is played with force and released quickly, it is often possible to hear the faint sound of the damper touching the strings immediately before the vibrations are stopped.

In addition, the speed at which keys are lifted will also affect the character of the sound. For example, when lifting the keys quickly (e.g. staccato playing) the 'release' portion of the sound will be noticeably shorter than when lifting the keys slowly (e.g. legato playing).

The CN35 digital piano reproduces both characteristics, with the Key-off Effect setting allowing the volume of the key-off sound to be adjusted, and the key-off release speed detection to be turned on or off.

* This Virtual Technician setting will affect acoustic piano sounds, Classic E.P., 60's E.P., Classic E.P. 2 and Classic E.P. 3 sound.

1. Selecting the Key-off Effect setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the Key-off Effect setting.
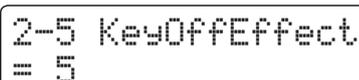
```
2-5 KeyOffEffect
= 5
```

2. Adjusting the Key-off Effect volume

Press the ▼ or ▲ VALUE buttons to adjust the volume of the Key-off Effect setting.

* The Key-off Effect volume can be adjusted within the range of Off, 1 - 10, with higher values resulting in a louder effect.

* When the Key-off Effect setting is set to Off, the key-off release speed detection will also be disabled, and the speed at which keys are lifted will not affect the character of the sound.

* Any changes made to the Key-off Effect setting will remain until the power is turned off.

* Preferred Key-off Effect settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.
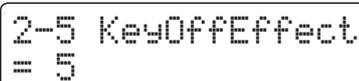
```
2-5 KeyOffEffect
= 5
```

⬇
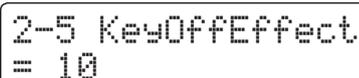
```
2-5 KeyOffEffect
= 10
```

3. Exiting the Key-off Effect setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Key-off Effect setting and return to the main settings menu.

2-6 Fall-back Noise

When playing an acoustic piano, it is often possible to hear the faint sound of the keyboard action returning (i.e. 'falling back') to the neutral position after a key is released.

The CN35 digital piano reproduces this sound, with the Fall-back Noise setting allowing the volume of this sound to be adjusted.

* This Virtual Technician setting will affect acoustic piano sounds only.

1. Selecting the Fall-back Noise setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the Fall-back Noise setting.

```
2-6 Fallback Ns.
= 5
```

2. Adjusting the Fall-back Noise volume

Press the ▼ or ▲ VALUE buttons to adjust the volume of the Fall-back Noise setting.

* The Fall-back Noise volume can be adjusted within the range of Off, 1 - 10, with higher values resulting in a louder effect.

* Any changes made to the Fall-back Noise setting will remain until the power is turned off.

* Preferred Fall-back Noise settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
2-6 Fallback Ns.
= 5
```

⬇

```
2-6 Fallback Ns.
= Off
```

3. Exiting the Fall-back Noise setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Fall-back Noise setting and return to the main settings menu.

Settings

2-7 Hammer Delay

When playing pianissimo passages using an acoustic piano, there may be a perceived delay between a key being pressed and the hammer striking the strings.

If desired, the CN35 digital piano can recreate this delay, with the Hammer Delay setting allowing the delay length to be adjusted.

* This Virtual Technician setting will affect acoustic piano sounds only.

1. Selecting the Hammer Delay setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the Hammer Delay setting.

```
2-7 Hammer Delay
= 5
```

2. Adjusting the Hammer Delay volume

Press the ▼ or ▲ VALUE buttons to adjust the volume of the Hammer Delay setting.

* The Hammer Delay volume can be adjusted within the range of Off, 1 - 10, with higher values resulting in an increased delay.

* Any changes made to the Hammer Delay setting will remain until the power is turned off.

* Preferred Hammer Delay settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
2-7 Hammer Delay
= 5
```

⬇

```
2-7 Hammer Delay
= 2
```

3. Exiting the Hammer Delay setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Hammer Delay setting and return to the main settings menu.

2-8 Topboard

When playing an acoustic grand piano, the position of the instrument's topboard (lid) affects both the volume and 'openness' of the tone produced. A fully open topboard allows sound waves to reflect off the polished lid surface and project into the room, while a closed lid has the opposite effect, resulting in a darker, more opaque tone.

The CN35 digital piano attempts to simulate these characteristics, with four different topboard positions.

* This Virtual Technician setting will affect acoustic piano sounds only.

■ Topboard positions

Topboard position	Description
Open 3 (default)	Simulates the character of a fully open topboard.
Open 2	Simulates the character of a half open topboard.
Open 1	Simulates the character of a partially open topboard.
Closed	Simulates the character of a closed topboard.

1. Selecting the Topboard setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the Topboard setting.

```
2-8 Topboard
= Open3
```

2. Changing the Topboard position

Press the ▼ or ▲ VALUE buttons to cycle through the different Topboard types.

* Any changes made to the Topboard setting will remain until the power is turned off.

* Preferred Topboard settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
2-8 Topboard
= Open3
```
⬇
```
2-8 Topboard
= Closed
```

3. Exiting the Topboard setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Topboard setting and return to the main settings menu.

Settings

2-9 Decay Time

When playing an acoustic grand piano, the length of the instrument influences the speed at which held notes decay, with longer grand pianos (i.e. longer strings) characterised by longer decay times.

The CN35 digital piano attempts to simulate this characteristic, with the Decay Time setting allowing the length of decay while keys are pressed to be adjusted.

* This Virtual Technician setting will affect all sounds.

1. Selecting the Decay Time setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the Decay Time setting.
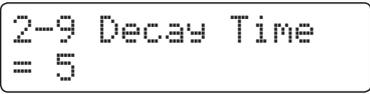
```
2-9 Decay Time
= 5
```

2. Adjusting the Decay Time volume

Press the ▼ or ▲ VALUE buttons to adjust the volume of the Decay Time setting.

* The Decay Time volume can be adjusted within the range of 1 - 10, with larger values resulting in increased decay times.

* Any changes made to the Decay Time setting will remain until the power is turned off.

* Preferred Decay Time settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

* The Decay Time setting can be set independently for each sound.

```
2-9 Decay Time
= 5
```

⬇

```
2-9 Decay Time
= 9
```

3. Exiting the Decay Time setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Decay Time setting and return to the main settings menu.

Settings

2-10 Minimum Touch

The Minimum Touch setting allows the minimum key velocity required to produce a sound to be adjusted. By default, this setting attempts to recreate the extremely fine touch sensitivity of a concert grand piano, allowing a very soft sound to be produced with the slightest of key touches. However, it may be desirable to reduce this sensitivity, when wishing to recreate the sensitivity of a small grand piano or an upright piano.

* This Virtual Technician setting will affect piano sound, Classic E.P., 60's E.P., Classic E.P. 2 and Classic E.P. 3 sound.

1. Selecting the Minimum Touch setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the Minimum Touch setting.

```
2-10 Minim.Touch
= 1
```

2. Adjusting the Minimum Touch volume

Press the ▼ or ▲ VALUE buttons to adjust the volume of the Minimum Touch setting.

* The Minimum Touch volume can be adjusted within the range of 1 - 20, with larger values resulting in a less sensitive key touch.

* Any changes made to the Minimum Touch setting will remain until the power is turned off.

* Preferred Minimum Touch settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
2-10 Minim.Touch
= 1
```

⬇

```
2-10 Minim.Touch
= 9
```

3. Exiting the Minimum Touch setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Minimum Touch setting and return to the main settings menu.

2-11 Temperament

The Temperament setting allows the tuning system used by the CN35 digital piano to be changed from the modern 'Equal Temperament' standard to one of the various temperaments popularised during the Renaissance and Baroque periods. It is also possible to create customised temperaments using the User Temperaments function.

■ Temperament types

Temperament type	Description
Equal Temperament (Equal)	This is the most popular tuning method that divides the scale into twelve equal semi-tones. This produces the same chordal intervals in all twelve keys, and has the advantage of limitless modulation of the key. However, the tonality of each key becomes less characteristic and no chord is in pure consonance.
Pure Temperament (Pure Major/Pure Minor)	This temperament, which eliminates dissonances for thirds and fifths, is still popular in choral music because of its perfect harmony. Any key modulation will result in dissonances. * The key of the temperament, and major/minor setting must be correctly matched.
Pythagorean Temperament (Pythagorean)	This temperament, which uses mathematical ratios to eliminate dissonance for fifths, is very limited for use with chords, but produces very characteristic melodic lines.
Meantone Temperament (Meantone)	This temperament, which uses a mean between a major and minor whole tone to eliminate dissonance for thirds, was devised to eliminate the lack of consonances experienced with certain fifths for the Mersenne pure temperament. It produces chords that are more beautiful than those played with equal temperament.
Werckmeister III Temperament (Werkmeister) Kirnberger III Temperament (Kirnberger)	These two temperaments are placed in between Meantone and Pythagorean. For music with few accidentals, this temperament produces the beautiful chords of the mean tone, but as accidentals increase, the temperament produces the characteristic melodies of the Pythagorean temperament. It is used primarily for classical music written in the Baroque era to revive the original characteristics.
User Temperament (User1/2)	User defined temperament created by raising or lowering the pitch for each semi-tone.

1. Selecting the Temperament setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the Temperament setting.

```
2-11 Temperament
= Equal
```

2. Changing the Temperament type

Press the ▼ or ▲ VALUE buttons to cycle through the different temperament types.

* Any changes made to the Temperament settings will remain until the power is turned off.

* Preferred Temperament settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
2-11 Temperament
= Equal
```

```
2-11 Temperament
= Meantone
```

3. Exiting the Temperament setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Temperament setting and return to the main settings menu.

Stretch Tuning

The Stretch Tuning setting specifies whether stretch tuning should be applied for acoustic piano sounds only, all sounds, or disabled entirely.

Stretch tuning is a piano-specific tuning method used by acoustic piano technicians in which the lower octaves are tuned slightly flatter and the upper octaves are tuned slightly sharper to match the natural harmonics of an acoustic piano.

* This setting is only effective when Temperament is set to Equal Temperament.

■ Stretch Tuning setting

Stretch Tuning	Description
Piano Only (default)	Stretch tuning is applied to acoustic piano sounds only.
Off	Stretch tuning is disabled.
On	Stretch tuning is applied to all sounds.

1. Selecting the Stretch Tuning setting

After selecting the Equal Temperament type (page 101):

Press the ▼ or ▲ MENU buttons to select the Stretch Tuning setting.

```
2-11 StretchTune
= Piano Only
```

2. Selecting the Stretch Tuning type

Press the ▼ or ▲ VALUE buttons to cycle through the Stretch Tuning setting.

* Any changes made to the Stretch Tuning setting will remain until the power is turned off.

* Preferred Stretch Tuning settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
2-11 StretchTune
= Piano Only
```
⬇
```
2-11 StretchTune
= Off
```

3. Exiting the Stretch Tuning setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Stretch Tuning setting and return to the main settings menu.

Stretch Curve

The Stretch Curve setting specifies the degree of stretch tuning to be applied to the sound. It is also possible to create custom tuning methods using one of the four User Tuning types.

* This setting is only effective when Stretch Tuning is set to On/Piano Only, and Temperament is set to Equal Temperament.

■ Stretch Curve setting

Stretch Curve	Description
Normal (default)	Normal stretch tuning.
Wide	Wide stretch tuning.
User 1~4	User defined tuning methods.

1. Selecting the Stretch Curve setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the Stretch Curve setting.

```
2-11 S.Curve
= Normal
```

2. Selecting the Stretch Curve type

Press the ▼ or ▲ VALUE buttons to cycle through the different Stretch Curve types.

* Any changes made to the Stretch Curve setting will remain until the power is turned off.

* Preferred Stretch Curve settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

* The Stretch Curve setting can be set independently for each sound.

```
2-11 S.Curve
= Normal
```
⬇
```
2-11 S.Curve
= Wide
```

3. Exiting the Stretch Curve setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Stretch Curve setting and return to the main settings menu.

User Tuning

The User Tuning function allows each of the 88-keys to be tuned individually.

* This function is only effective when Stretch Tuning is set to On/Piano Only, Temperament is set to Equal Temperament, and Stretch Curve is set to User 1~4.

1. Selecting the User Tuning memory

After selecting the Stretch Curve setting (page 103):

Press the ▼ or ▲ VALUE buttons to select one of the User Tuning memories.

* Up to four different User Tuning memories can be created and stored.

Press the REC button.

The User Tuning screen will be shown in the LCD display.

```
2-11 S.Curve
= User1→PressREC
```

⬇

```
UserTuning    A0
=0      →PressSTOP
```

2. Selecting the note, adjusting the user tuning value

Press the desired key to be tuned, then press the ▼ or ▲ VALUE buttons to set the desired tuning value.

The desired key can also be selected by pressing the ▼ or ▲ MENU buttons.

* The User Tuning value can be adjusted within the range of –50 - +50.

* Any changes made to the User Tuning setting will remain until the power is turned off.

* Preferred User Tuning settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
UserTuning    A0
=0      →PressSTOP
```

⬇

```
UserTuning    C#2
=-4     →PressSTOP
```

3. Exiting the User Tuning function

Press the STOP button to exit the User Tuning setting and return to the main settings menu.

* The User Tuning settings are saved automatically.

Temperament Key

The Temperament Key setting allows the key of the selected temperament to be specified. When using a temperament other than Equal temperament, use this setting to specify the key signature of the piece.

* This setting will only affect the 'balance' of the tuning system, the pitch of the keyboard will remain unchanged.

■ Changing the Temperament Key setting

*After selecting a temperament **other than** Equal temperament types:*

Press the ▼ or ▲ MENU buttons to select Temperament Key setting.

Press the ▼ or ▲ VALUE buttons to select the desired temperament key.

* The temperament key can be set within the range of C to B.

```
2-11 Temper. Key
= C
```

⬇

```
2-11 Temper. Key
= F
```

User Temperament

The User Temperament setting allows custom temperaments to be created.

* This setting is only available when User Temperament is selected.

1. Selecting the User Temperament

After selecting the User Temperament type (page 101):

Press the MENU button.

```
2-11UserTemp. C
= 0
```

2. Selecting the note, adjusting the user temperament value

Press the ▼ or ▲ MENU buttons to select the desired note to be adjusted.
Press the ▼ or ▲ VALUE to adjust the cent value for the selected note.

* The User Temperament value can be adjusted within the range of −50 - +50.

* Any changes made to the User Temperament setting will remain until the power is turned off.

* Preferred User Temperament settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
2-11UserTemp. C
= 0
```

⬇

```
2-11UserTemp. E
= +5
```

3. Exiting the User Temperament function

Press the ▼ and ▲ MENU buttons simultaneously to exit the User Temperament setting and return to the main settings menu.

2-12 User Key Volume

The User Key Volume settings allows the volume of each of the 88-keys to be adjusted individually.

1. Selecting the User Key Volume setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the User Key Volume setting.

```
2-12 UserKeyVol.
= Off
```

2. Selecting the User Key Volume memory

Press the ▼ or ▲ VALUE buttons to select the User Key Volume memories.

* Up to four different User Key Volume memories can be created and stored.

Press the REC button to adjust the User Key Volume memory.

```
2-12 UserKeyVol.
= Off
```

⬇

```
2-12 UserKeyVol.
= User1→PressREC
```

⬇

```
UserKeyVol.  A0
= 0    →PressSTOP
```

3. Selecting the note, adjusting the User Key Volume

Press the desired key to be adjusted, then press the ▼ or ▲ VALUE buttons to select the desired volume value.

The desired key can also be selected by pressing the ▼ or ▲ MENU buttons.

* The User Key Volume setting can be set independently for each sound.

```
UserKeyVol.  C#1
=+5    →PressSTOP
```

4. Exiting the User Key Volume function

Press the STOP button to exit the User Key Volume setting and return to the main settings menu.

* The User Key Volume settings are saved automatically.

2-13 Half-Pedal Adjust

The Half-Pedal Adjust setting allows the point at which the damper/sustain pedal becomes effective (i.e. when the dampers of the piano begin to lift from the strings) to be adjusted. This setting may be useful for pianists that habitually rest their right foot on the damper/sustain pedal, but do not necessarily wish to sustain the sound.

* This Virtual Technician setting will affect all sounds.

1. Selecting the Half-Pedal Adjust setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the Half-Pedal Adjust setting.

```
2-13HarfPedalAdj
= 5
```

2. Adjusting the Half-Pedal Adjust volume

Press the ▼ or ▲ VALUE buttons to adjust the volume of the Half-Pedal Adjust setting.

* The Half-Pedal Adjust volume can be adjusted within the range of 1 - 10, with higher values resulting in a later damper pedal point.

* Any changes made to the Half-Pedal Adjust setting will remain until the power is turned off.

* Preferred Half-Pedal Adjust settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
2-13HarfPedalAdj
= 5
```
⬇
```
2-13HarfPedalAdj
= 9
```

3. Exiting the Half-Pedal Adjust setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Half-Pedal Adjust setting and return to the main settings menu.

2-14 Soft Pedal Depth

The Soft Pedal Depth setting adjusts the effectiveness (i.e. depth/strength) of the soft pedal.

* This Virtual Technician setting will affect all sounds.

1. Selecting the Soft Pedal Depth setting

After entering the Virtual Technician menu (page 89):

Press the ▼ or ▲ MENU buttons to select the Soft Pedal Depth setting.

```
2-14SoftPedalDep
= 5
```

2. Adjusting the Soft Pedal Depth volume

Press the ▼ or ▲ VALUE buttons to adjust the volume of the Soft Pedal Depth setting.

* The Soft Pedal Depth volume can be adjusted within the range of 1 - 10, with higher values resulting in a softer sound.

* Any changes made to the Soft Pedal Depth setting will remain until the power is turned off.

* Preferred Soft Pedal Depth settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
2-14SoftPedalDep
= 5
```

⬇

```
2-14SoftPedalDep
= 9
```

3. Exiting the Soft Pedal Depth setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Soft Pedal Depth setting and return to the main settings menu.

Key Settings

The Key Settings menu contains settings to adjust the instrument's operation when using the Dual or Split playing modes.

∎Key Settings

Page no.	Setting	Description	Default setting
3-1	Lower Octave	Raise the pitch of the lower section in octave steps when using Split mode.	0
3-2	Lower Pedal	Enable/disable sustain pedal for the lower section when using Split mode.	Off
3-3	Layer Octave	Raise the pitch of the layered sound in octave steps when using Dual mode.	0
3-4	Layer Dynamics	Adjust the dynamic sensitivity of the layered sound when using Dual mode.	10

* Default settings will be shown in the first LCD display illustration (i.e. Step 1) for each setting explanation below.

∎Entering the Key Settings menu

While the normal playing mode screen is shown in the LCD display:

Press the ▼ or ▲ MENU buttons to select the Key Settings menu.

```
3 Key Settings
   →Press VALUE▲
```
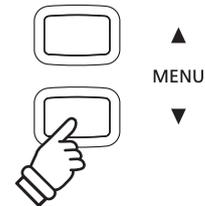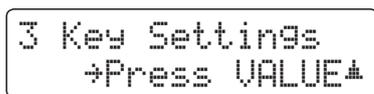
MENU

Press the VALUE ▲ button to enter the Key Settings menu.

The first page of the Key Settings menu will be shown in the LCD display

VALUE

∎Selecting the desired setting

After entering the Key Settings menu:

Press the ▼ or ▲ MENU buttons to cycle through the different settings pages.

MENU

Settings page no.

```
3-1 Lower Octave
= 0
```
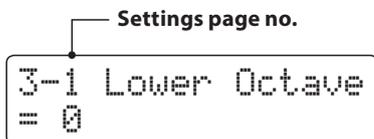
3-1 Lower Octave Shift

The Lower Octave Shift setting allows the pitch of the lower section when using Split mode to be raised in octave steps.

1. Selecting the Lower Octave Shift setting

After entering the Key Settings menu (page 110):

The Lower Octave Shift setting will be selected automatically.
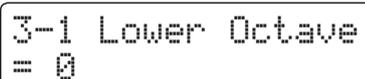
```
3-1 Lower Octave
= 0
```

2. Changing the Lower Octave Shift value

Press the ▼ or ▲ VALUE buttons to decrease or increase the value of the Lower Octave Shift setting.

* The pitch of the lower section can be raised by up to 3 octaves.

* Any changes made to the Lower Octave shift setting will remain until the power is turned off.

* Preferred Lower Octave Shift settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.
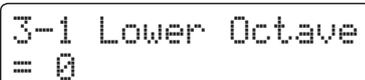
```
3-1 Lower Octave
= 0
```

⬇
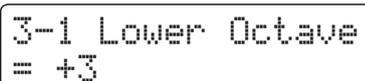
```
3-1 Lower Octave
= +3
```

3. Exiting the Lower Octave Shift setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Lower Octave Shift setting and return to the main settings menu.

3-2 Lower Pedal

The Lower Pedal setting determines whether or not the sustain pedal will affect (i.e. sustain) the lower sound when using Split mode.

∎ Lower Pedal settings

Lower Pedal	Description
Off (default)	In Split mode, lower section sounds will not be sustained when the sustain pedal is pressed.
On	In Split mode, lower section sounds will be sustained when the sustain pedal is pressed.

1. Selecting the Lower Pedal setting

After entering the Key Settings menu (page 110):

Press the ▼ or ▲ MENU buttons to select the Lower Pedal setting.

```
3-2 Lower Pedal
= Off
```

2. Changing the Lower Pedal setting

Press the ▼ or ▲ VALUE buttons to turn the Lower Pedal setting on or off.

* Any changes made to the Lower Pedal setting will remain until the power is turned off.

* Preferred Lower Pedal settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
3-2 Lower Pedal
= Off
```
⬇
```
3-2 Lower Pedal
= On
```

3. Exiting the Lower Pedal setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Lower Pedal setting and return to the main settings menu.

3-3 Layer Octave Shift

The Layer Octave Shift setting allows the pitch of the layered sound when using Dual mode to be raised or lowered in octave steps.

1. Selecting the Layer Octave Shift setting

After entering the Key Settings menu (page 110):

Press the ▼ or ▲ MENU buttons to select the Layer Octave Shift setting.
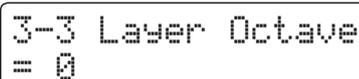
```
3-3 Layer Octave
= 0
```

2. Changing the Layer Octave Shift value

Press the ▼ or ▲ VALUE buttons to decrease or increase the value of the Layer Octave Shift setting.

* The pitch of the layered sound can be raised or lowered by up to 2 octaves.

* Some layered sounds may not produce a tone when the octave range is raised beyond a certain value.

* Any changes made to the Layer Octave shift setting will remain until the power is turned off.

* Preferred Layer Octave Shift settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.
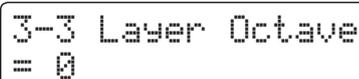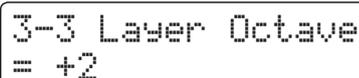
```
3-3 Layer Octave
= 0
```
⬇
```
3-3 Layer Octave
= +2
```

3. Exiting the Layer Octave Shift setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Layer Octave Shift setting and return to the main settings menu.

3-4 Layer Dynamics

When using Dual mode, sometimes simply adjusting the volume balance between the two layered sounds is not enough to create the desired sound character, especially if both sounds are very dynamic. Layering two equally dynamic sounds can prove difficult to control and play comfortably.

The Layer Dynamics Function allows the dynamic sensitivity of the layered sound to be reduced, in order to improve the blend between the two combined sounds. In addition to reducing the volume of the layered sound, limiting its dynamic sensitivity also allows the layered sound to be controlled more easily in relation to the main sound.

1. Selecting the Layer Dynamics setting

After entering the Key Settings menu (page 110):

Press the ▼ or ▲ MENU buttons to select the Layer Dynamics setting.

```
3-4 LayerDynamic
= 10
```

2. Adjusting the Layer Dynamics setting

Press the ▼ or ▲ VALUE buttons to decrease or increase the value of the Layer Dynamics setting.

* The layer dynamics value can be adjusted within the range of Off, 1 - 10.

* Any changes made to the Layer Dynamics setting will remain until the power is turned off.

* Preferred Layer Dynamics settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
3-4 LayerDynamic
= 10
```

⬇

```
3-4 LayerDynamic
= 5
```

3. Exiting the Layer Dynamics setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Layer Dynamics setting and return to the main settings menu.

Settings

Power Settings

4-1 Auto Power Off

The CN35 digital piano features a power saving function that can be used to automatically turn off the instrument after a specified period of inactivity.

* This setting will be stored automatically, and recalled every time the instrument is turned on.

■ Auto Power Off settings

Auto Power Off	Description
Off	The Auto Power Off function is disabled.
30 min.	The instrument will turn off automatically after 30 minutes of inactivity.
60 min.	The instrument will turn off automatically after 60 minutes of inactivity.
120 min.	The instrument will turn off automatically after 120 minutes of inactivity.

1. Selecting the Auto Power Off setting

While the normal playing mode screen is shown in the LCD display:

Press the ▼ or ▲ MENU buttons to select the Power Settings menu, then press the VALUE ▲ button to enter the menu.

The Auto Power Off setting will be selected automatically.

```
5-1 AutoPowerOff
= Off
```

2. Changing the Auto Power Off setting

Press the ▼ or ▲ VALUE buttons to change the Auto Power Off setting.

* The Auto Power Off setting will be stored automatically, and recalled every time the instrument is turned on.

```
5-1 AutoPowerOff
= Off
```
⬇
```
5-1 AutoPowerOff
= 60 min.
```

3. Exiting the Auto Power Off setting

Press the ▼ and ▲ MENU buttons simultaneously to exit the Auto Power Off setting and return to the main settings menu.

Assembly Instructions

⚠ **Please read these assembly instructions thoroughly before attempting to assemble the CN35 digital piano.**

Please ensure that two or more people work on assembling the CN35 digital piano, especially when lifting the main body of the instrument onto the stand in step 3.

■Included parts

Before attempting to assemble the CN35 piano unit, ensure that all parts are included.
A Phillips-head screwdriver will also be required to assemble the unit (not included).
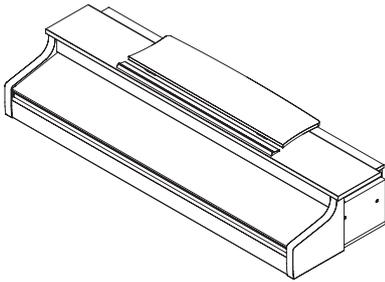
① Main body
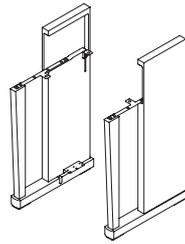
② Side panel (left, right)
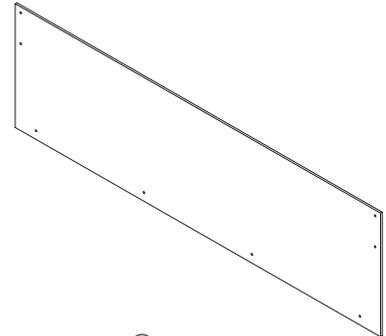
③ Back board
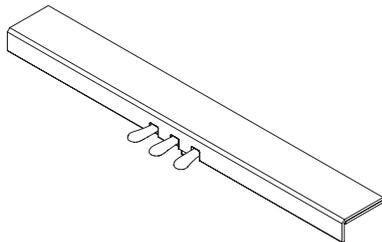
④ Pedal board (including adjustor bolt)
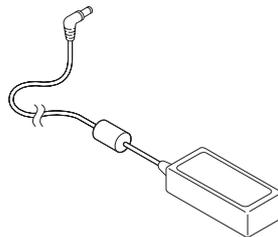
⑤ AC/DC Adaptor

⑥ Power cable

Screw set

⑦ Screw (with flat washer and spring washer) x 4

⑧ Tapping screw (long, black or silver) x 4

⑨ Tapping screw (mid, black or silver) x 4

⑩ Tapping screw (short, silver) x 4

⑪ Headphone hook set x 1

Headphone hook

Mounting screws (14 mm) x 2

1. Attaching the side panels ② to the pedal board ④

Unfasten and extend the pedal connection cable attached to the bottom of the pedal board ④.

Attach the left and right side panels ② to the pedal board ④ using the temporary mounting screws located on either end of the pedal board.

Ensure that the pedal board and side panels make close contact, and that there are no large gaps between the assembled parts.

Insert two short silver tapping screws ⑩ into the holes at either end of the pedal board (four screws in total), and securely fasten the left and right side panels.
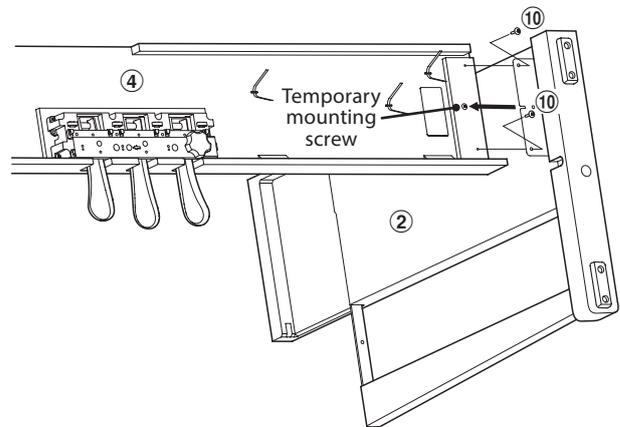
2. Attaching the back board ③

Allow the assembled pedal board and side panels to stand upright (vertically) on the floor.

Loosely attach the back board ③ to the left and right side panels using the four long black or silver tapping screws ⑧.

Loosely attach the back board to the pedal board using the four mid-length black or silver tapping screws ⑨.

Adjust the positioning of the pedal board, side panels, and backboard to ensure that all parts are in alignment, then firmly tighten all the screws.
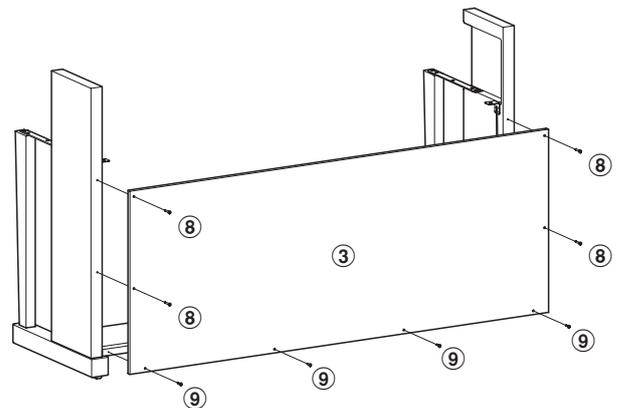
3. Mounting the main body ① onto the stand

⚠ **Ensure that two or more people undertake the following step of the assembly process.**

Place the assembled stand against a wall to prevent it from moving/leaning backwards.

Carefully lift the main body ① onto the stand, and gradually slide the unit backwards until it is aligned with the rear of the side panels.

⚠ **When sliding the main body into the stand, be careful not to catch/trap hands and fingers.**

Securely fasten the main body to the stand using the four screws with spring washers ⑦.

⚠ **Tighten all screws securely to ensure that the main body is firmly attached to the stand.**

Appendix

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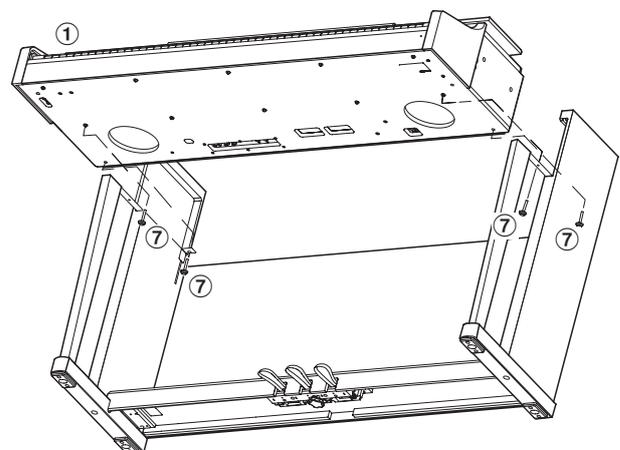
Assembly Instructions

4. Connecting the pedal and power cables

Pass the pedal cable (extending from the rear of the pedal board) through the back board aperture to the front of the main body, and connect to the PEDAL terminal.

Connect the AC/DC adaptore ⑤ to the DC IN terminal on the underside of the main body, then pass the cable through the back board aperture, and out to the rear of the instrument.

With the power and pedal cables connected, use the binders to fix the cables in place and tidy their appearance.
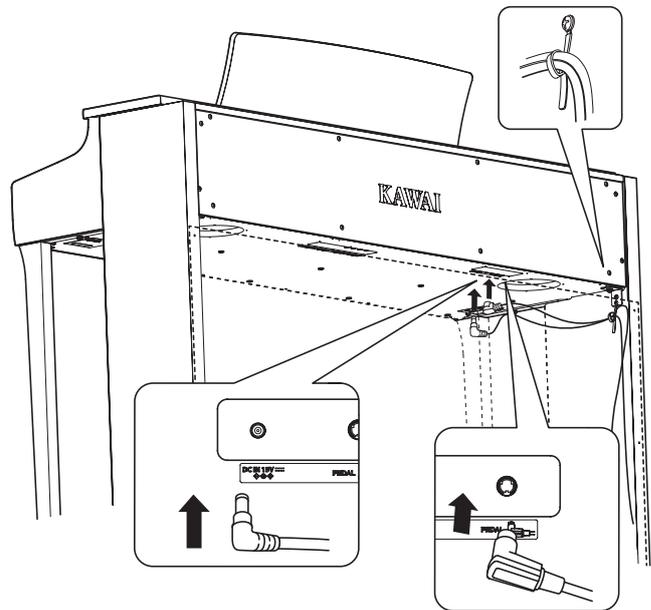
5. Attaching the headphone hook ⑪ (optional)

A headphone hook is included with the CN35 digital piano and can be used to hang headphones when not in use.

If desired, attach the headphone hook to the underside of the main body using the two tapping screws provided.

* If the headphone hook will not be required, it can be kept with the instruction manual.
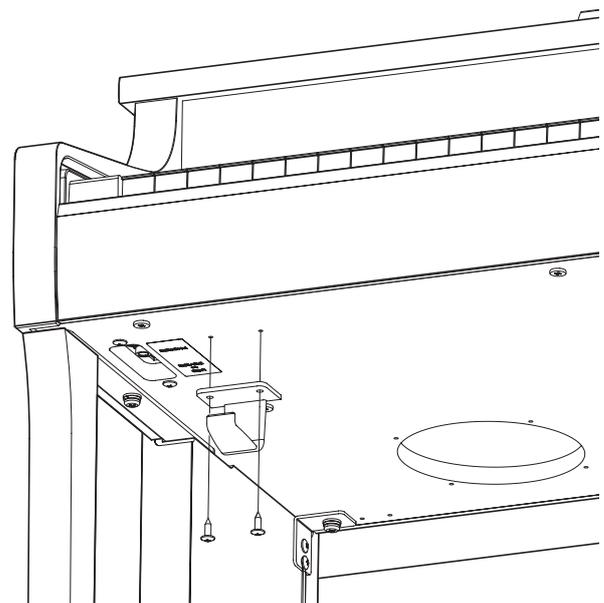
6. Adjusting the pedal adjuster bolt

Turn the pedal support bolt anti-clockwise, extending the bolt until it makes contact with the floor and supports the pedals firmly.

⚠ **When moving the instrument, always adjust or remove the pedal support bolt, then readjust when the instrument is in its new position.**

Pedal support bolt
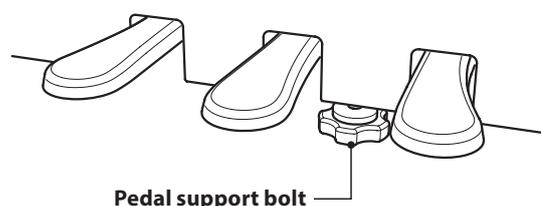
Connecting to Other Devices

The CN35 digital piano features a variety of jacks that allow the instrument to be connected to MIDI devices, computers, speakers, and mixers. It is also possible to connect external audio sources, such as an MP3 player, tablet, or a secondary keyboard, to the instrument's amplifier and speaker system. The illustration below provides a visual overview of the connectors and their typical applications.

Connect the audio from other devices to the instrument's speakers.

L / MONO **R**

Computer   Tablet

USB Connect the instrument to a computer or tablet to send or receive MIDI data.

USB type 'A'

USB type 'B'

| LINE IN | LINE OUT | USB to HOST | MIDI |
| L/MONO R | L/MONO R | | IN   OUT |

L / MONO   **R**

Connect the instrument to external speakers, amplifiers, mixers, etc.

OUT   **IN**

Connect the instrument to MIDI modules, other instruments/devices, etc.

⚠ **Before connecting the CN35 digital piano to other devices, ensure that the power to both the instrument and the other device is turned off. If connections are established while the power is turned on, extraneous noise that can damage the CN35 digital piano may activate the instrument's amplifier protection circuit, preventing any sound from being produced. If this occurs, turn the power off and then on again to reset the amplifier protection circuit.**

Do not connect the LINE IN and LINE OUT jacks of the CN35 digital piano together with the same cable. An audio loop (oscillation sound) will occur, resulting in damage to the unit.

Jack Panel

■LINE IN jacks (1/4" phone jack)

These jacks are used to connect a pair of stereo outputs from other electronic instruments or audio equipment to the CN35 digital piano's speakers. To adjust the LINE IN level, please use the volume controls on the device itself.

To connect a device in mono, connect the cable to the L/MONO jack only.

■LINE OUT jacks (1/4" phone jack)

These jacks are used to connect the stereo output of the CN35 digital piano's sound to external speakers, amplifiers, mixers, recording devices, and similar equipment.

Mono signals will be output only if a cable is connected to the L/MONO jack.

The MASTER VOLUME slider does not affect the LINE OUT level.

* The 'Line Out Volume' setting can be used to adjust the level of the LINE OUT signal. Please refer to page 82 for more information.

■USB to Host port ('B' type)

This USB port is used to connect the CN35 digital piano to a computer or iPad using an inexpensive USB cable. When connected, the instrument can be used as a standard MIDI device, allowing it to send a receive MIDI data. Connect a 'B' type USB connector to the instrument, and an 'A' type USB connector to the computer.

With additional conversion adaptors, this port may also be used to connect the CN25 digital piano to tablets such as the Apple iPad and other mobile devices.

* Please refer to page 121 for more information about USB MIDI.

■MIDI IN/OUT jacks

These jacks are used to connect the CN35 digital piano to external MIDI devices, and also to a computer with a MIDI interface as an alternative to the 'USB to Host' port.

* Please refer to page 1 of "CN35 MIDI Settings Manual" for more information about MIDI.

Headphone Panel

■PHONES jacks (1/4" phone jack)

These jacks are used to connect stereo headphones to the CN35 digital piano. Two pairs of headphones can be connected and used simultaneously. When a pair of headphones is connected, sound will not be produced by the speakers.

■USB to Device port ('A' type)

This USB port is used to connect a USB memory device to the CN35 digital piano. This allows MP3/WAV audio files, and SMF song files to be played directly. It is also possible to record performances to MP3/WAV audio files and SMF, and save recorder songs stored in internal memory for posterity.

■USB device information

■ The 'USB to Device' functionality of the CN35 digital piano conforms to USB2.0 Hi-Speed standards. Older USB devices can still be used, however data transfer speed will be limited to the maximum transfer speed of the device.

■ The 'USB to Device' port is intended for connecting USB memory devices, however USB floppy drive devices can also be used to save recorder songs stored in internal memory, or play SMF song files.

■ It may be necessary to format the USB memory device before it can be used with the CN35 digital piano. If so, please refer to the USB Format function instructions on page 74. Formatting the device will erase all data.

■ Avoid removing the USB memory device while data is being loaded or saved, files are being renamed or deleted, or the device is being formatted.

■ Other USB devices, such as computer mice, keyboards, or battery chargers etc. cannot be used with this instrument.

Appendix

USB MIDI (USB to Host connector)

The CN35 digital piano features a 'USB to Host' type connector, allowing the instrument to be connected to a computer using an inexpensive USB cable and utilised as a MIDI device. Depending on the type of computer and operating system installed, additional driver software may be required for USB MIDI communication to function correctly.

■ USB MIDI driver

Operating System	USB MIDI Driver Support
Windows ME Windows XP (no SP, SP1, SP2, SP3) Windows XP 64-bit Windows Vista (SP1, SP2) Windows Vista 64-bit (SP1, SP2) Windows 7 (no SP, SP1) Windows 7 64-bit Windows 8 Windows 8 64-bit Windows 8.1 Windows 8.1 64-bit	**Additional USB MIDI driver software NOT required.** The standard (built-in) Windows USB MIDI driver will be installed automatically when the instrument is connected to the computer. * After driver installation, ensure that the 'USB Audio Device' (Windows ME/Windows XP) or 'USB-MIDI' (Windows Vista/Windows 7/Windows 8/Windows 8 64-bit) device is correctly selected in the application software.
Windows 98 se Windows 2000 Windows Vista (no SP)	**Additional USB MIDI driver software required.** Please download the USB MIDI driver from the Kawai Japan website: ➡ http://www.kawai-global.com * After driver installation, ensure that the 'KAWAI USB MIDI' device is correctly selected in the application software.
Windows Vista 64-bit (no SP)	**USB MIDI is not supported.** Please upgrade to service pack 1 or service pack 2.
Mac OS X	**Additional USB MIDI driver software NOT required.** The standard (built-in) Mac OS X USB MIDI driver will be installed automatically when the instrument is connected to the computer.
Mac OS 9	**USB MIDI is not supported.** Please use the standard MIDI IN/OUT connectors.

■ USB MIDI information

■ If the instrument's MIDI IN/OUT jacks and USB MIDI port are both connected simultaneously, the USB MIDI port will be given priority.

■ Ensure that the instrument is turned OFF before attempting to connect the USB MIDI cable.

■ When connecting the instrument to a computer using the USB MIDI port, there may be a short delay before communications begin.

■ If the instrument is connected to a computer via a USB hub and USB MIDI communication becomes unreliable/unstable, please connect the USB MIDI cable directly to the one of the computer's USB ports.

■ Disconnecting the USB MIDI cable suddenly, or turning the instrument on/off while using USB MIDI may cause computer instability in the following situations:

– while installing the USB MIDI driver
– while starting up the computer
– while MIDI applications are performing tasks
– while the computer is in energy saver mode

■ If there are any further problems experienced with USB MIDI communication while the instrument is connected, please double-check all connections and relevant MIDI settings in the computer's operating system.

* 'MIDI' is a registered trademark of the Association of Manufacturers of Electronic Instruments (AMEI).
* 'Windows' is registered trademark of Microsoft Corporation.
* 'Macintosh' and 'iPad' are registered trademark of Apple Computer, Inc.
* Other company names and product names mentioned referenced herein may be registered trademarks or trademarks of respective owners.

Troubleshooting

The tables below summarise issues that may be experienced with the CN35 digital piano, explaining the typical cause(s), and recommended solution(s).

■Power

Issue	Possible Cause and Solution	Page no.
The instrument does not turn on.	Check that the power cable is firmly attached to the instrument, and connected to an AC outlet.	p. 14
The instrument turns itself off after a period of inactivity.	Check that the 'Auto Power Off' function is not enabled.	p. 115

■Sound

Issue	Possible Cause and Solution	Page no.
The instrument is turned on, however no sound is produced when the keys are pressed.	Check that the MASTER VOLUME slider is not set to the lowest position.	p. 14
	Check that a pair of headphones (or headphone adaptor plug) are not connected to the PHONES jacks.	p. 15
	Check that the 'Local Control' setting in the MIDI Settings menu is set to On.	"CN35 MIDI Settings Manual" p. 5
The sound distorts when playing at very loud volume levels.	Check that the MASTER VOLUME slider is set to an appropriate level, reducing the volume if excessive distortion is heard.	p. 14
	If connecting the instrument to an amplifier/mixer using the Line Out jacks, reduce the value of the 'Line Out Volume' setting in the Basic Settings menu	
Strange sounds or noises are heard when playing with piano sounds.	The CN35 digital piano attempts to reproduce the rich variety of tones created by an acoustic grand piano as accurately as possible. This includes string and damper resonances, key-off noises, and other subtle characteristics that contribute to the overall piano playing experience.	p. 89
	While these additional tones are intended to enhance the realism of the instrument, it is possible to reduce their prominence, or disable the effects altogether using the settings in the Virtual Technician menu.	
The top 18 notes of the keyboard sustain for longer than neighbouring notes, even when the damper pedal is not pressed.	This is the correct behaviour, and intended to reproduce the undamped notes (typically the top two octaves) of an acoustic grand piano.	–

■Pedals

Issue	Possible Cause and Solution	Page no.
The pedals are unreliable or do not function at all.	Check that the pedal cable is firmly connected to the instrument.	p. 118
When depressing a pedal, the pedal board flexes and is not firm.	Check that the pedal support bolt is fully extended.	p. 118

Appendix

◼ Headphones

Issue	Possible Cause and Solution	Page no.
The headphone volume is too low.	If the 'Nominal Impedance' specification of the headphones is less than 100 Ω (ohms), set the 'Phones Volume' setting in the Basic Settings menu to High.	p. 81

◼ USB (memory device)

Issue	Possible Cause and Solution	Page no.
A USB memory device is not detected, cannot be saved to, or does not appear to function when connected to the 'USB to Device' port.	Check that the USB memory device is formatted to use the FAT/FAT32 filesystem, and not set to 'Write Protect' mode.	p. 120
	Disconnect the USB memory device, turn the instrument off then on, then reconnect the USB device. If the USB device still does not function, it may be damaged or incompatible. Please try using a different USB device.	–
The instrument pauses briefly when connecting a USB memory device.	This is recognised behaviour when using very large capacity (e.g. 8GB+) USB memory devices.	–

◼ USB (MIDI)

Issue	Possible Cause and Solution	Page no.
The instrument is connected to the computer using a USB cable, however the software does not respond to key presses.	Check that a USB MIDI driver is installed on the computer.	p. 121
	Check that 'USB Audio Device' or 'KAWAI USB MIDI' is selected in the software's input/output device settings.	p. 121

◼ MP3/WAV/SMF files

Issue	Possible Cause and Solution	Page no.
No sound can be heard when playing an MP3 or WAV audio file stored on a USB memory device.	Check that the audio player volume is not set to 0.	p. 54
	Check that the format of the audio file is supported and listed in the 'Audio Player supported format specifications' table.	p. 53
An MP3/WAV audio file stored on a USB memory device sounds strange, or does not play back correctly.	Check that the format of the audio file is supported and listed in the 'Audio Player supported format specifications' table.	p. 53
	The file transfer speed of the USB memory device may be too slow to play the audio file. Please try using a different USB memory device, ensuring that it conforms to USB2.0 Hi-Speed standards.	p. 120
When recording MP3/WAV audio files, the volume is too low/too high (distorted).	Check the 'Audio Recorder Gain' setting before recording the audio, and if necessary adjust to increase/decrease the recording level.	p. 83

Appendix

Demo Song List

Sound Name	Song Title	Composer
PIANO1		
Concert Grand	Hungarian Rhapsodies No.6	List
Studio Grand	Original	Kawai
Mellow Grand	Sonata No.30 Op.109	Beethoven
Modern Piano	Original	Kawai
PIANO2		
Concert Grand 2	Petit Chien	Chopin
Studio Grand 2	Original	Kawai
Mellow Grand 2	La Fille aux Cheveux de lin	Debussy
Rock Piano	Original	Kawai
ELECTRIC PIANO		
Classic E.P.	Original	Kawai
Modern E.P.	Original	Kawai
Modern E.P. 2	Original	Kawai
ORGAN		
Jazz Organ	Original	Kawai
Blues Organ	Original	Kawai
Church Organ	Chorale Prelude "Wachet auf, ruft uns die Stimme."	Bach
Diapason	Wohl mir, daβ ich Jesum have	Bach
Full Ensemble	Original	Kawai
HARPSI & MALLETS		
Harpsichord	French Suite No.6	Bach
Vibraphone	Original	Kawai
Clavi	Original	Kawai
STRINGS		
Slow Strings	Original	Kawai
String Pad	Original	Kawai
String Ensemble	Le quattro stagioni: la "Primavera"	Vivaldi
CHOIR & PAD		
Choir	Londonderry Air	Irish folk song
Choir 2	Original	Kawai
New Age	Original	Kawai
Atmosphere	Original	Kawai
BASS		
Wood Bass	Original	Kawai
Electric Bass	Original	Kawai
Fretless Bass	Original	Kawai
W. Bass & Ride	Original	Kawai
OTHERS		
	Zwei Rapsodien Op.79 Nr.2	Brahms
	Piano Concerto a moll Op.16	Grieg

* Kawai regrets that sheet music for Kawai original demo songs is not available.

Appendix

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
PIANO1					
Concert Grand	0	1	121	0	1
Studio Grand	0	2	121	1	1
Mellow Grand	0	3	121	2	1
Modern Piano	0	4	121	0	2
PIANO2					
Concert Grand 2	0	5	95	16	1
Studio Grand 2	0	6	95	17	1
Mellow Grand 2	0	7	95	18	1
Rock Piano	0	8	121	1	2
ELECTRIC PIANO					
Classic E.P.	0	9	121	0	5
Modern E.P.	0	10	121	0	6
60's E.P.	0	11	121	3	5
Modern E.P. 2	0	12	121	1	6
ORGAN					
Jazz Organ	0	13	121	0	18
Blues Organ	0	14	121	0	17
Ballad Organ	0	15	95	5	17
Gospel Organ	0	16	95	3	17
Church Organ	0	17	121	0	20
Diapason	0	18	95	7	20
Full Ensemble	0	19	95	1	21
Diapason Oct.	0	20	95	6	20
HARPSI&MALLETS					
Harpsichord	0	21	121	0	7
Harpsichord 2	0	22	121	3	7
Vibraphone	0	23	121	0	12
Clavi	0	24	121	0	8
STRINGS					
Slow Strings	0	25	95	1	45
String Pad	0	26	95	8	49
Warm Strings	0	27	95	1	49
String Ensemble	0	28	121	0	49
CHOIR&PAD					
Choir	0	29	121	0	53
Choir 2	0	30	95	53	54
New Age	0	31	121	0	89
Atmosphere	0	32	121	0	100
BASS					
Wood Bass	0	33	121	0	33
Electric Bass	0	34	121	0	34
Fretless Bass	0	35	121	0	36
W. Bass & Ride	0	36	95	1	33

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
OTHERS: Piano					
Jazz Grand	0	37	95	8	1
New Age Piano	0	38	95	9	1
New Age Piano 2	0	39	95	10	1
New Age Piano 3	0	40	95	11	1
Piano Octaves	0	41	95	1	1
Electric Grand	0	42	121	0	3
Electric Grand2	0	43	121	1	3
Honky Tonk	0	44	121	0	4
Wide Honky Tonk	0	45	121	1	4
OTHERS: E.Piano					
Dolce E.P.	0	46	95	2	5
Crystal E.P.	0	47	95	1	6
Tremolo E.P.	0	48	95	1	5
Classic E.P. 2	0	49	121	1	5
Classic E.P. 3	0	50	121	2	5
New Age E.P.	0	51	95	2	6
Modern E.P. 3	0	52	121	2	6
Legend E.P.	0	53	121	3	6
Phase E.P.	0	54	121	4	6
OTHERS: Harpsi & Mallet					
Harpsichord Oct	0	55	121	1	7
WideHarpsichord	0	56	121	2	7
Synth Clavi	0	57	121	1	8
Celesta	0	58	121	0	9
Glockenspiel	0	59	121	0	10
Music Box	0	60	121	0	11
Wide Vibraphone	0	61	121	1	12
Marimba	0	62	121	0	13
Wide Marimba	0	63	121	1	13
Xylophone	0	64	121	0	14
Handbells	0	65	95	1	15
Tubular Bells	0	66	121	0	15
Church Bells	0	67	121	1	15
Carillon	0	68	121	2	15
Dulcimer	0	69	121	0	16
OTHERS: Drawbar					
Drawbar Organ	0	70	95	1	17
Drawbar Organ 2	0	71	95	2	17
Drawbar Organ 3	0	72	121	2	18
Drawbar Organ 4	0	73	121	3	17
Drawbar Organ 5	0	74	121	1	17
Jazzer	0	75	95	1	18

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
Soft Solo	0	76	95	8	17
ElectronicOrgan	0	77	95	9	17
60's Organ	0	78	121	2	17
Perc. Organ	0	79	121	1	18
Tibia Bass	0	80	95	14	18
Rock Organ	0	81	121	0	19
OTHERS: Church Organ					
Principal Oct.	0	82	95	24	20
Theater Organ	0	83	95	1	20
8' Celeste	0	84	95	5	20
Small Ensemble	0	85	95	8	20
Reeds	0	86	95	10	20
Chiffy Tibia	0	87	95	17	20
Principal Pipe	0	88	95	22	20
Church Organ 2	0	89	121	1	20
Church Organ 3	0	90	121	2	20
Reed Organ	0	91	121	0	21
Puff Organ	0	92	121	1	21
OTHERS: Accordion					
FrenchAccordion	0	93	121	0	22
Fr. Accordion 2	0	94	95	1	22
Accordion	0	95	121	1	22
Accordion 2	0	96	95	2	22
Blues Harmonica	0	97	95	2	23
Harmonica	0	98	121	0	23
Tango Accordion	0	99	121	0	24
OTHERS: Guitar					
FingerNylon Gtr	0	100	95	4	25
Nylon Acoustic	0	101	121	0	25
Nylon Acoustic2	0	102	121	2	25
Nylon Acoustic3	0	103	121	3	25
Ukulele	0	104	121	1	25
Steel Guitar	0	105	121	0	26
Steel Guitar 2	0	106	121	3	26
12 String	0	107	121	1	26
Mandolin	0	108	121	2	26
Ballad Guitar	0	109	95	6	26
Jazz Guitar	0	110	121	0	27
Modern Jazz Gtr	0	111	95	10	27
Pedal Steel	0	112	121	1	27
Rhythm Guitar	0	113	121	2	28
Electric Guitar	0	114	121	0	28
E. Guitar 2	0	115	121	1	28

Appendix

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
E. Guitar 3	0	116	121	2	29
Cutting Guitar	0	117	95	3	28
Cutting Guitar2	0	118	121	1	29
Cutting Guitar3	0	119	95	5	28
Muted Electric	0	120	121	0	29
Country Lead	0	121	121	3	29
OverdriveGuitar	0	122	121	0	30
Dynmic Ov.drive	0	123	121	1	30
Distortion	0	124	121	0	31
Dist Feedback	0	125	121	1	31
Dist Rhythm	0	126	121	2	31
E.Gtr Harmonics	0	127	121	0	32
Guitar Feedback	0	128	121	1	32
OTHERS: Bass					
Wood Bass 2	1	1	95	2	33
Wood Bass 3	1	2	95	4	33
Wood Bass 4	1	3	95	5	33
Electric Bass 2	1	4	95	5	34
Electric Bass 3	1	5	95	6	34
FingerSlap Bass	1	6	121	1	34
Pick Bass	1	7	121	0	35
Slap Bass	1	8	121	0	37
Slap Bass 2	1	9	121	0	38
Synth Bass	1	10	121	0	39
Synth Bass 2	1	11	121	0	40
Synth Bass 3	1	12	121	2	39
Synth Bass 4	1	13	121	1	40
Warm Synth Bass	1	14	121	1	39
Clavi Bass	1	15	121	3	39
Hammer Bass	1	16	121	4	39
Rubber Bass	1	17	121	2	40
Attack Bass	1	18	121	3	40
OTHERS: Strings & OrchInst					
Violin	1	19	121	0	41
Slow Violin	1	20	121	1	41
Viola	1	21	121	0	42
Cello	1	22	121	0	43
Contrabass	1	23	121	0	44
Tremolo Strings	1	24	121	0	45
Strings & Brass	1	25	121	1	49
60's Strings	1	26	121	2	49
Strings sf.	1	27	95	9	49
StringEnsemble2	1	28	121	0	50

Appendix

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
Synth Strings	1	29	121	0	51
Synth Strings 2	1	30	121	0	52
Synth Strings 3	1	31	121	1	51
Pizzicato	1	32	121	0	46
Harp	1	33	121	0	47
Celtic Harp	1	34	121	1	47
Timpani	1	35	121	0	48
OTHERS: Choir & Hit					
Choir 3	1	36	121	1	53
Voice Oohs	1	37	121	0	54
Humming	1	38	121	1	54
Synth Vocal	1	39	121	0	55
Analog Voice	1	40	121	1	55
Orchestra Hit	1	41	121	0	56
Bass Hit Plus	1	42	121	1	56
6th Hit	1	43	121	2	56
Euro Hit	1	44	121	3	56
OTHERS: Brass					
Trumpet	1	45	121	0	57
Solo Trumpet	1	46	121	1	57
Flugel Horn	1	47	95	1	57
SentimentalBone	1	48	95	7	58
Trombone	1	49	121	0	58
Trombone 2	1	50	121	1	58
Bright Trombone	1	51	121	2	58
Tuba	1	52	121	0	59
CupMute Trumpet	1	53	95	1	60
CupMuteTrombone	1	54	95	2	60
Muted Trumpet	1	55	121	0	60
Muted Trumpet 2	1	56	121	1	60
French Horns	1	57	121	0	61
Warm FrenchHorn	1	58	121	1	61
Brass Section	1	59	121	0	62
Brass Section 2	1	60	121	1	62
Synth Brass	1	61	121	0	63
Synth Brass 2	1	62	121	0	64
Synth Brass 3	1	63	121	1	63
Synth Brass 4	1	64	121	1	64
Jump Brass	1	65	121	3	63
Analog Brass	1	66	121	2	63
Analog Brass 2	1	67	121	2	64

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
OTHERS: Reed					
Oboe & Strings	1	68	95	5	69
Soprano Sax	1	69	121	0	65
Alto Sax	1	70	121	0	66
Soft Tenor Sax	1	71	95	2	67
Tenor Sax	1	72	121	0	67
Baritone Sax	1	73	121	0	68
Oboe	1	74	121	0	69
English Horn	1	75	121	0	70
Bassoon	1	76	121	0	71
Clarinet	1	77	121	0	72
OTHERS: Pipe					
Flute & Strings	1	78	95	8	74
Piccolo	1	79	121	0	73
Jazz Flute	1	80	95	1	74
Big Band Winds	1	81	95	2	74
OrchestralWinds	1	82	95	3	74
Flute	1	83	121	0	74
Ballad Flute	1	84	95	13	74
Recorder	1	85	121	0	75
Pan Flute	1	86	121	0	76
Blown Bottle	1	87	121	0	77
Shakuhachi	1	88	121	0	78
Whistle	1	89	121	0	79
Ocarina	1	90	121	0	80
OTHERS: Synth Lead					
Square	1	91	121	0	81
Square 2	1	92	121	1	81
Sine	1	93	121	2	81
Classic Synth	1	94	121	0	82
Classic Synth 2	1	95	121	1	82
Lead	1	96	121	2	82
Classic Synth 3	1	97	121	3	82
SequencedAnalog	1	98	121	4	82
Caliope	1	99	121	0	83
Chiff	1	100	121	0	84
Charang	1	101	121	0	85
Wire Lead	1	102	121	1	85
Voice	1	103	121	0	86
Fifth	1	104	121	0	87
Bass & Lead	1	105	121	0	88
Soft Wire Lead	1	106	121	1	88

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
OTHERS: Synth Pad					
Itopia	1	107	121	1	92
New Age 2	1	108	95	1	89
New Age 3	1	109	95	2	89
New Age 4	1	110	95	3	89
Warm Pad	1	111	121	0	90
Sine Pad	1	112	121	1	90
Bright Warm Pad	1	113	95	1	90
Polysynth	1	114	121	0	91
Choir	1	115	121	0	92
Bowed	1	116	121	0	93
Metallic	1	117	121	0	94
Halo	1	118	121	0	95
Sweep	1	119	121	0	96
Multi Sweep	1	120	95	1	96
OTHERS: Synth SFX					
Rain Pad	1	121	121	0	97
Soundtrack	1	122	121	0	98
Crystal	1	123	121	0	99
Synth Mallet	1	124	121	1	99
Brightness	1	125	121	0	101
Brightness 2	1	126	95	1	101
Goblin	1	127	121	0	102
Echoes	1	128	121	0	103
Echo Bell	2	1	121	1	103
Echo Pan	2	2	121	2	103
Sci-Fi	2	3	121	0	104
OTHERS: Ethnic					
Sitar	2	4	121	0	105
Sitar 2	2	5	121	1	105
Banjo	2	6	121	0	106
Shamisen	2	7	121	0	107
Koto	2	8	121	0	108
Taisho Koto	2	9	121	1	108
Kalimba	2	10	121	0	109
Bag Pipe	2	11	121	0	110
Fiddle	2	12	121	0	111
Shanai	2	13	121	0	112
OTHERS: Percussion					
Tinkle Bell	2	14	121	0	113
Agogo	2	15	121	0	114
Steel Drums	2	16	121	0	115
Woodblock	2	17	121	0	116

Appendix

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2		
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number
Castanet	2	18	121	1	116
Taiko Drums	2	19	121	0	117
Concert BD	2	20	121	1	117
Melodic Toms	2	21	121	0	118
Melodic Toms 2	2	22	121	1	118
Synth Drum	2	23	121	0	119
Rhythm Box Tom	2	24	121	1	119
Electric Drum	2	25	121	2	119
Reverse Cymbal	2	26	121	0	120
Gtr Fret Noise	2	27	121	0	121
GtrCuttingNoise	2	28	121	1	121
CuttingNoise 2	2	29	95	1	121
Ac Bass Slap	2	30	121	2	121
OTHERS: SFX					
Breath Noise	2	31	121	0	122
Flute Key Click	2	32	121	1	122
Seashore	2	33	121	0	123
Rain	2	34	121	1	123
Thunder	2	35	121	2	123
Wind	2	36	121	3	123
Stream	2	37	121	4	123
Bubble	2	38	121	5	123
Bird Tweet	2	39	121	0	124
Dog Barking	2	40	121	1	124
Horse Gallop	2	41	121	2	124
Bird Tweet 2	2	42	121	3	124
Telephone	2	43	121	0	125
Telephone 2	2	44	121	1	125
Door Creak	2	45	121	2	125
Door Slam	2	46	121	3	125
Scratch	2	47	121	4	125
Wind Chime	2	48	121	5	125
Helicopter	2	49	121	0	126
Car Engine	2	50	121	1	126
Car Stopping	2	51	121	2	126
Car Passing	2	52	121	3	126
Car Crash	2	53	121	4	126
Siren	2	54	121	5	126
Train	2	55	121	6	126
Jet Plane	2	56	121	7	126
Starship	2	57	121	8	126
Burst Noise	2	58	121	9	126
Applause	2	59	121	0	127

Appendix

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2			
	Bank LSB	Program Number	Bank MSB	Bank LSB	Program Number	
Laughing	2	60	121	1	127	
Screaming	2	61	121	2	127	
Punch	2	62	121	3	127	
Heartbeat	2	63	121	4	127	
Foot Step	2	64	121	5	127	
Gunshot	2	65	121	0	128	
Machine Gun	2	66	121	1	128	
Laser Gun	2	67	121	2	128	
Explosion	2	68	121	3	128	
OTHERS: DRUMKIT						
Standard Set	2	69	120	0	1	
Room Set	2	70	120	0	9	
Power Set	2	71	120	0	17	
Electronic Set	2	72	120	0	25	
Analog Set	2	73	120	0	26	
Jazz Set	2	74	120	0	33	
Brush Set	2	75	120	0	41	
Orchestra Set	2	76	120	0	49	
SFX Set	2	77	120	0	57	
Ambience Set	2	78	120	0	1	*1
Pop Set	2	79	120	0	1	*2
Ballad Set	2	80	120	0	1	*3

*1 Exclusive message (F0, 40, 7F, 33, 04, 08, 10, ch, 7F, 02, F7) is required after the Program Change message.
*2 Exclusive message (F0, 40, 7F, 33, 04, 08, 10, ch, 7F, 04, F7) is required after the Program Change message.
*3 Exclusive message (F0, 40, 7F, 33, 04, 08, 10, ch, 7F, 05, F7) is required after the Program Change message.
    'ch' is the MIDI channel number (00~0F)

Appendix

Drum Sound Mapping List

		Standard Set	Room Set	Power Set	Electronic Set
	C#				
	D				
	D#	High Q	High Q	High Q	High Q
	E	Slap	Slap	Slap	Slap
	F	Scratch Push	Scratch Push	Scratch Push	Scratch Push
	F#	Scratch Pull	Scratch Pull	Scratch Pull	Scratch Pull
	G	Sticks	Sticks	Sticks	Sticks
	G#	Square Click	Square Click	Square Click	Square Click
	A	Metronome Click	Metronome Click	Metronome Click	Metronome Click
	A#	Metronome Bell	Metronome Bell	Metronome Bell	Metronome Bell
	B	Acoustic Bass Drum	Acoustic Bass Drum	Acoustic Bass Drum	Acoustic Bass Drum
C2	C	Bass Drum 1	Bass Drum 1	Power Kick Drum	Electric Bass Drum
	C#	Side Stick	Side Stick	Side Stick	Side Stick
	D	Acoustic Snare	Acoustic Snare	Power Snare Drum	Electric Snare 1
	D#	Hand Clap	Hand Clap	Hand Clap	Hand Clap
	E	Electric Snare	Electric Snare	Electric Snare	Electric Snare 2
	F	Low Floor Tom	Room Low Tom 2	Power Low Tom 2	Electric Low Tom 2
	F#	Closed Hi-hat	Closed Hi-hat	Closed Hi-hat	Closed Hi-hat
	G	High Floor Tom	Room Low Tom 1	Power Low Tom 1	Electric Low Tom 1
	G#	Pedal Hi-hat	Pedal Hi-hat	Pedal Hi-hat	Pedal Hi-hat
	A	Low Tom	Room Mid Tom 2	Power Mid Tom 2	Electric Mid Tom 2
	A#	Open Hi-hat	Open Hi-hat	Open Hi-hat	Open Hi-hat
	B	Low-Mid Tom	Room Mid Tom 1	Power Mid Tom 1	Electric Mid Tom 1
C3	C	High-Mid Tom	Room Hi Tom 2	Power Hi Tom 2	Electric Hi Tom 2
	C#	Crash Cymbal 1	Crash Cymbal 1	Crash Cymbal 1	Crash Cymbal 1
	D	Hi Tom	Room Hi Tom 1	Power Hi Tom 1	Electric Hi Tom 1
	D#	Ride Cymbal 1	Ride Cymbal 1	Ride Cymbal 1	Ride Cymbal 1
	E	Chinese Cymbal	Chinese Cymbal	Chinese Cymbal	Reverse Cymbal
	F	Ride Bell	Ride Bell	Ride Bell	Ride Bell
	F#	Tambourine	Tambourine	Tambourine	Tambourine
	G	Splash Cymbal	Splash Cymbal	Splash Cymbal	Splash Cymbal
	G#	Cowbell	Cowbell	Cowbell	Cowbell
	A	Crash Cymbal 2	Crash Cymbal 2	Crash Cymbal 2	Crash Cymbal 2
	A#	Vibra-slap	Vibra-slap	Vibra-slap	Vibra-slap
	B	Ride Cymbal 2	Ride Cymbal 2	Ride Cymbal 2	Ride Cymbal 2
C4	C	High Bongo	High Bongo	High Bongo	High Bongo
	C#	Low Bongo	Low Bongo	Low Bongo	Low Bongo
	D	Mute Hi Conga	Mute Hi Conga	Mute Hi Conga	Mute Hi Conga
	D#	Open Hi Conga	Open Hi Conga	Open Hi Conga	Analog Mid Conga
	E	Low Conga	Low Conga	Low Conga	Analog Low Conga
	F	High Timbale	High Timbale	High Timbale	High Timbale
	F#	Low Timbale	Low Timbale	Low Timbale	Low Timbale
	G	High Agogo	High Agogo	High Agogo	High Agogo
	G#	Low Agogo	Low Agogo	Low Agogo	Low Agogo
	A	Cabasa	Cabasa	Cabasa	Cabasa
	A#	Maracas	Maracas	Maracas	Maracas
	B	Short Whistle	Short Whistle	Short Whistle	Short Whistle
C5	C	Long Whistle	Long Whistle	Long Whistle	Long Whistle
	C#	Short Guiro	Short Guiro	Short Guiro	Short Guiro
	D	Long Guiro	Long Guiro	Long Guiro	Long Guiro
	D#	Claves	Claves	Claves	Claves
	E	Hi Wood Block	Hi Wood Block	Hi Wood Block	Hi Wood Block
	F	Low Wood Block	Low Wood Block	Low Wood Block	Low Wood Block
	F#	Mute Cuica	Mute Cuica	Mute Cuica	Mute Cuica
	G	Open Cuica	Open Cuica	Open Cuica	Open Cuica
	G#	Mute Triangle	Mute Triangle	Mute Triangle	Mute Triangle
	A	Open Triangle	Open Triangle	Open Triangle	Open Triangle
	A#	Shaker	Shaker	Shaker	Shaker
	B	Jingle Bell	Jingle Bell	Jingle Bell	Jingle Bell
C6	C	Bell Tree	Bell Tree	Bell Tree	Bell Tree
	C#	Castanets	Castanets	Castanets	Castanets
	D	Mute Surdo	Mute Surdo	Mute Surdo	Mute Surdo
	D#	Open Surdo	Open Surdo	Open Surdo	Open Surdo
	E				

		Analog Set	Jazz Set	Brush Set	Orchestra Set
	C#				
	D				
	D#	High Q	High Q	High Q	Closed Hi-hat 2
	E	Slap	Slap	Slap	Pedal Hi-hat
	F	Scratch Push	Scratch Push	Scratch Push	Open Hi-hat 2
	F#	Scratch Pull	Scratch Pull	Scratch Pull	Ride Cymbal 1
	G	Sticks	Sticks	Sticks	Sticks
	G#	Square Click	Square Click	Square Click	Square Click
	A	Metronome Click	Metronome Click	Metronome Click	Metronome Click
	A#	Metronome Bell	Metronome Bell	Metronome Bell	Metronome Bell
	B	Acoustic Bass Drum	Jazz Kick 2	Jazz Kick 2	Concert BD 2
C2	C	Analog Bass Drum	Jazz Kick 1	Jazz Kick 1	Concert BD 1
	C#	Analog Rim Shot	Side Stick	Side Stick	Side Stick
	D	Analog Snare 1	Acoustic Snare	Brush Tap	Concert SD
	D#	Hand Clap	Hand Clap	Brush Slap	Castanets
	E	Electric Snare	Electric Snare	Brush Swirl	Concert SD
	F	Analog Low Tom 2	Low Floor Tom	Low Floor Tom	Timpani F
	F#	Analog CHH 1	Closed Hi-hat	Closed Hi-hat	Timpani F#
	G	Analog Low Tom 1	High Floor Tom	High Floor Tom	Timpani G
	G#	Analog CHH 2	Pedal Hi-hat	Pedal Hi-hat	Timpani G#
	A	Analog Mid Tom 2	Low Tom	Low Tom	Timpani A
	A#	Analog OHH	Open Hi-hat	Open Hi-hat	Timpani A#
	B	Analog Mid Tom 1	Low-Mid Tom	Low-Mid Tom	Timpani B
C3	C	Analog Hi Tom 2	High-Mid Tom	High-Mid Tom	Timani c
	C#	Analog Cymbal	Crash Cymbal 1	Crash Cymbal 1	Timpani c#
	D	Analog Hi Tom 1	Hi Tom	Hi Tom	Timpani d
	D#	Ride Cymbal 1	Ride Cymbal 1	Ride Cymbal 1	Timpani d#
	E	Chinese Cymbal	Chinese Cymbal	Chinese Cymbal	Timpani e
	F	Ride Bell	Ride Bell	Ride Bell	Timpani f
	F#	Tambourine	Tambourine	Tambourine	Tambourine
	G	Splash Cymbal	Splash Cymbal	Splash Cymbal	Splash Cymbal
	G#	Analog Cowbell	Cowbell	Cowbell	Cowbell
	A	Crash Cymbal 2	Crash Cymbal 2	Crash Cymbal 2	Concert Cymbal 2
	A#	Vibra-slap	Vibra-slap	Vibra-slap	Vibra-slap
	B	Ride Cymbal 2	Ride Cymbal 2	Ride Cymbal 2	Concert Cymbal 1
C4	C	High Bongo	High Bongo	High Bongo	High Bongo
	C#	Low Bongo	Low Bongo	Low Bongo	Low Bongo
	D	Analog Hi Conga	Mute Hi Conga	Mute Hi Conga	Mute Hi Conga
	D#	Analog Mid Conga	Open Hi Conga	Open Hi Conga	Open Hi Conga
	E	Analog Low Conga	Low Conga	Low Conga	Low Conga
	F	High Timbale	High Timbale	High Timbale	High Timbale
	F#	Low Timbale	Low Timbale	Low Timbale	Low Timbale
	G	High Agogo	High Agogo	High Agogo	High Agogo
	G#	Low Agogo	Low Agogo	Low Agogo	Low Agogo
	A	Cabasa	Cabasa	Cabasa	Cabasa
	A#	Analog Maracas	Maracas	Maracas	Maracas
	B	Short Whistle	Short Whistle	Short Whistle	Short Whistle
C5	C	Long Whistle	Long Whistle	Long Whistle	Long Whistle
	C#	Short Guiro	Short Guiro	Short Guiro	Short Guiro
	D	Long Guiro	Long Guiro	Long Guiro	Long Guiro
	D#	Analog Claves	Claves	Claves	Claves
	E	Hi Wood Block	Hi Wood Block	Hi Wood Block	Hi Wood Block
	F	Low Wood Block	Low Wood Block	Low Wood Block	Low Wood Block
	F#	Mute Cuica	Mute Cuica	Mute Cuica	Mute Cuica
	G	Open Cuica	Open Cuica	Open Cuica	Open Cuica
	G#	Mute Triangle	Mute Triangle	Mute Triangle	Mute Triangle
	A	Open Triangle	Open Triangle	Open Triangle	Open Triangle
	A#	Shaker	Shaker	Shaker	Shaker
	B	Jingle Bell	Jingle Bell	Jingle Bell	Jingle Bell
C6	C	Bell Tree	Bell Tree	Bell Tree	Bell Tree
	C#	Castanets	Castanets	Castanets	Castanets
	D	Mute Surdo	Mute Surdo	Mute Surdo	Mute Surdo
	D#	Open Surdo	Open Surdo	Open Surdo	Open Surdo
	E				Applause

Appendix

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Drum Sound Mapping List

		SFX Set	Ambience Set	Pop Set	Ballad Set
	C#		Snare Roll	Snare Roll	Snare Roll
	D		Finger Snap	Finger Snap	Finger Snap
	D#		High Q	High Q	High Q
	E		Slap	Slap	Slap
	F		Scratch Push	Scratch Push	Scratch Push
	F#		Scratch Pull	Scratch Pull	Scratch Pull
	G		Sticks	Sticks	Sticks
	G#		Square Click	Square Click	Square Click
	A		Metronome Click	Metronome Click	Metronome Click
	A#		Metronome Bell	Metronome Bell	Metronome Bell
	B		Ambi BD2	Pop BD2	Bala BD2
C2	C		Ambi BD1	Pop BD1	Bala BD1
	C#		Ambi Rim	Pop Rim	Ambi Rim
	D		Ambi SD1	Pop SD1	Bala SD1
	D#	High Q	Hand Clap	Hand Clap	Hand Clap
	E	Slap	Ambi SD2	Pop SD2	Bala SD2
	F	Scratch Push	AmbiLowTom2	PopLowTom2	PopLowTom2
	F#	Scratch Pull	Ambi HHC	Pop HHC	Funk HHC
	G	Sticks	AmbiLowTom1	PopLowTom1	PopLowTom1
	G#	Square Click	Ambi HHP	Pop HHP	Funk HHP
	A	Metronome Click	AmbiMidTom2	PopMidTom2	PopMidTom2
	A#	Metronome Bell	Ambi HHO	Pop HHO	Pop HHO
	B	Guitar Fret Noise	AmbiMidTom1	PopMidTom1	PopMidTom1
C3	C	Guitar Cutting Noise Up	AmbiHiTom2	PopHiTom2	PopHiTom2
	C#	Guitar Cutting Noise Down	Ambi Crash1	Funk Crash1	Ambi Crash1
	D	String Slap of Double Bass	AmbiHiTom1	PopHiTom1	PopHiTom1
	D#	Fl. Key Click	Pop Ride1	Pop Ride1	Pop Ride1
	E	Laughing	Chinese Cymbal	Chinese Cymbal	Chinese Cymbal
	F	Scream	Pop Cup	Pop Cup	Pop Cup
	F#	Punch	Tambourlne	Tambourlne	Tambourlne
	G	Heart Beat	Funk Splash	Funk Splash	Funk Splash
	G#	Footsteps 1	Cowbell	Cowbell	Cowbell
	A	Footsteps 2	Funk Crash2	Funk Crash2	Funk Crash2
	A#	Applause	Vibra slap	Vibra slap	Vibra slap
	B	Door Creaking	Pop Ride2	Pop Ride2	Pop Ride2
C4	C	Door	Hi Bongo	Hi Bongo	Hi Bongo
	C#	Scratch	Low Bongo	Low Bongo	Low Bongo
	D	Wind Chimes	Mute Hi Conga	Mute Hi Conga	Mute Hi Conga
	D#	Car-Engine	Hi Conga	Hi Conga	Hi Conga
	E	Car-Stop	Low Conga	Low Conga	Low Conga
	F	Car-Pass	Hi Timbale	Hi Timbale	Hi Timbale
	F#	Car-Crash	Low Timbale	Low Timbale	Low Timbale
	G	Siren	Hi Agogo	Hi Agogo	Hi Agogo
	G#	Train	Low Agogo	Low Agogo	Low Agogo
	A	Jetplane	Cabasa	Cabasa	Cabasa
	A#	Helicoopter	Maracas	Maracas	Maracas
	B	Startship	Short Whistle	Short Whistle	Short Whistle
C5	C	Gun Shot	Long Whistle	Long Whistle	Long Whistle
	C#	Machine Gun	Short Guiro	Short Guiro	Short Guiro
	D	Lasergun	Long Guiro	Long Guiro	Long Guiro
	D#	Explosion	Claves	Claves	Claves
	E	Dog	Hi Wood Blk	Hi Wood Blk	Hi Wood Blk
	F	Horse-Gallop	Low Wood Blk	Low Wood Blk	Low Wood Blk
	F#	Birds	Mute Cuica	Mute Cuica	Mute Cuica
	G	Rain	Open Cuica	Open Cuica	Open Cuica
	G#	Thunder	Mute Triangle	Mute Triangle	Mute Triangle
	A	Wind	Open Triangle	Open Triangle	Open Triangle
	A#	Seashore	Shaker	Shaker	Shaker
	B	Stream	Jingle Bell	Jingle Bell	Jingle Bell
C6	C	Bubble	Bar Chimes	Bar Chimes	Bar Chimes
	C#		Castanets	Castanets	Castanets
	D		Mute Surdo	Mute Surdo	Mute Surdo
	D#		Open Surdo	Open Surdo	Open Surdo
	E				

Drum Rhythm List

No.	Rhythm Name		No.	Rhythm Name
1	8 Beat 1		51	Hip Hop 3
2	8 Beat 2		52	Hip Hop 4
3	8 Beat 3		53	Techno 1
4	16 Beat 1		54	Techno 2
5	16 Beat 2		55	Techno 3
6	16 Beat 3		56	Heavy Techno
7	16 Beat 4		57	8 Shuffle 1
8	16 Beat 5		58	8 Shuffle 2
9	16 Beat 6		59	8 Shuffle 3
10	Rock Beat 1		60	Boogie
11	Rock Beat 2		61	16 Shuffle 1
12	Rock Beat 3		62	16 Shuffle 2
13	Hard Rock		63	16 Shuffle 3
14	Heavy Beat		64	T Shuffle
15	Surf Rock		65	Triplet 1
16	2nd Line		66	Triplet 2
17	50 Ways		67	Triplet 3
18	Ballad 1		68	Triplet 4
19	Ballad 2		69	Triplet Ballad 1
20	Ballad 3		70	Triplet Ballad 2
21	Ballad 4		71	Triplet Ballad 3
22	Ballad 5		72	Motown 1
23	Light Ride 1		73	Motown 2
24	Light Ride 2		74	Ride Swing
25	Smooth Beat		75	H.H. Swing
26	Rim Beat		76	Jazz Waltz 1
27	Slow Jam		77	Jazz Waltz 2
28	Pop 1		78	5/4 Swing
29	Pop 2		79	Tom Swing
30	Electro Pop 1		80	Fast 4 Beat
31	Electro Pop 2		81	H.H. Bossa Nova
32	Ride Beat 1		82	Ride Bossa Nova
33	Ride Beat 2		83	Beguine
34	Ride Beat 3		84	Mambo
35	Ride Beat 4		85	Cha Cha
36	Slip Beat		86	Samba
37	Jazz Rock		87	Light Samba
38	Funky Beat 1		88	Surdo Samba
39	Funky Beat 2		89	Latin Groove
40	Funky Beat 3		90	Afro Cuban
41	Funk 1		91	Songo
42	Funk 2		92	Bembe
43	Funk 3		93	African Bembe
44	Funk Shuffle 1		94	Merenge
45	Funk Shuffle 2		95	Reggae
46	Buzz Beat		96	Tango
47	Disco 1		97	Habanera
48	Disco 2		98	Waltz
49	Hip Hop 1		99	Ragtime
50	Hip Hop 2		100	Country & Western

Settings List

The tables below list all of the settings/functions that can be adjusted from the CN35 digital piano's panel interface, in addition to available ranges/types, default settings, and Registration/Startup Setting storing capabilities.

No.	Setting Name	Range / Type	Default Setting	Registration	Startup Setting
1. Basic Settings					
1-1	Tone Control	Off, Brilliance, Loudness, Bass Boost, Treble Boost, Mid Cut, User	Off	●	●
	Brilliance	−10 - +10	0	●	●
	User Low	−6 dB - +6dB	0 dB	●	●
	User Mid Low	−6 dB - +6dB	0 dB	●	●
	User Mid High	−6 dB - +6dB	0 dB	●	●
	User High	−6 dB - +6dB	0 dB	●	●
1-2	Speaker Volume	Normal, Low	Normal	-	●
1-3	Phones Volume	Normal, High	Normal	-	●
1-4	Line Out Volume	0 - 10	10	-	●
1-5	Audio Rec. Gain	0 dB - +15 dB	0 dB	-	●
1-6	Tuning	427.0Hz - 453.0 Hz	440.0 Hz	●	●
1-7	Damper Hold	Off, On	Off	●	●
1-8	Four Hands	Off, On	Off	●	●
1-9	Startup Setting	-	-	-	-
1-10	Factory Reset	-	-	-	-
2. Virtual Technician					
2-1	Voicing	Normal, Mellow 1, Mellow 2, Dynamic, Bright 1, Bright 2	Normal	●	●
2-2	Damper Resonance	Off, 1 - 10	5	●	●
2-3	Damper Noise	Off, 1 - 10	5	●	●
2-4	String Resonance	Off, 1 - 10	5	●	●
2-5	Key-off Effect	Off, 1 - 10	5	●	●
2-6	Fall-back Noise	Off, 1 - 10	5	●	●
2-7	Hammer Delay	Off, 1 - 10	5	●	●
2-8	Topboard	Open3, Open2, Open1, Closed	Open 3	●	●
2-9	Decay Time	1 - 10	5	●	●
2-10	Minimum Touch	1 - 20	1	●	●
2-11	Temperament		Equal	●	●
	Stretch Tuning	Off, On, Piano Only	Piano Only	●	●
	Stretch Curve	Normal, Wide, User1, User2, User3, User4	Normal	●	●
	User Tuning	−50 - +50	0	●	●
	Temperament Key	Equal, Pure Major, Pure Minor, Pythagorean, Meantime, Werckmeister, Kirnberger, User	C	●	●
	User Temperament	−50 - +50	-	●	●
2-12	User Key Volume	Off, User1, User2, User3, User4	Off	●	●
	User Key Volume value	−50 - +50	0	●	●
2-13	Half-Pedal Adjust	1 - 10	5	●	●
2-14	Soft Pedal Depth	1 - 10	5	●	●
3. Key Settings					
3-1	Lower Octave Shift	0 - +3	0	●	●
3-2	Lower Pedal On/Off	Off, On	Off	●	●
3-3	Layer Octave Shift	-2 - +2	0	●	●
3-4	Layer Dynamics	Off, 1 - 10	10	●	●

No.	Setting Name	Range / Type	Default Setting	Registration	Startup Setting
4. MIDI Settings					
4-1	MIDI Channel	1 - 16	1	●	●
4-2	Send Program Change Number	-	1	●	●
4-3	Local Control	Off, On	On	●	●
4-4	Transmit Program Change Number	Off, On	Off	●	●
4-5	Multi Timbral Mode	Off, On1, On2	Off	●	●
	Channel Mute	Play, Mute for each channel 1 - 16	All Play	●	●
5. Power Settings					
5-1	Auto Power Off	Off, 30 min., 60 min., 120 min.	Off	-	-*

Touch					
Touch Curve	Light+, Light, Normal, Heavy, Heavy+, Off, User 1/2		Normal	●	●
Transpose					
Key Transpose On/Off (button)	Off, On		Off		●
Key Transpose Value	–12 (C) - +12 (C)		0	●	●
Song Transpose Value	–12 (C) - +12 (C)		0	-	-
Split					
Split On/Off (button)	Off, On		Off	●	●
Split Point	A–1 - C7		G2	●	●
Metronome Menu					
Metronome On/Off (button)	Off, On		Off	-	-
Tempo	10 - 400 BPM		120 BPM	●	●
Beat	1/4, 2/4, 3/4, 4/4, 5/4, 3/8, 6/8, 7/8, 9/8, 12/8, 100 Drum Rhythms		4/4	●	●
Volume	0 - 10		5	●	●
Internal Recorder : Playback Mode Menu					
Tempo (main screen)	10 - 400 BPM		120 BPM	-	-
Song Volume	1 - 10		5	-	-
Song Transpose	–12 (C) - +12 (C)		0 (C)	-	-
Song Part	1, 2, 1&2		1&2	-	-
USB Recorder : SMF Playback Mode Menu					
Volume (main screen)	1 - 10		5	-	-
Song Tempo	10 - 400 BPM		120 BPM	-	-
Song Transpose	–12 (C) - +12 (C)		0 (C)	-	-
Song Part	Play, Mute		Play	-	-
Reverb Menu					
Reverb On/Off (button)	Off, On		Off	●	●
Reverb Type	Room, Lounge, Small Hall, Concert Hall, Live Hall, Cathedral		Sound's default	●	●
Effects Menu					
Effects On/Off (button)	Off, On		Off	●	●
Effect Type	Chorus, Classic Chorus, Song Part, Ping Delay, Triple Delay, Tremolo, Classic Tremolo, Phaser, Rotary1, Rotary2, Rotary3, Phaser+Amp, Auto Pan+Amp		Sound's default	●	●

* Auto Power Off setting is stored to User Memory automatically.

Specifications

Keyboard	88 weighted keys with Ivory Touch key surfaces Responsive Hammer III (RHIII) action with Let-Off, Triple Sensor, and Counterweights	
Sound Source	Progressive Harmonic Imaging™ (PHI), 88-key piano sampling	
Internal Sounds	324 voices	PIANO1: Concert Grand, Studio Grand, Mellow Grand, Modern Piano PIANO2: Concert Grand 2, Studio Grand 2, Mellow Grand 2, Rock Piano ELECTRIC PIANO: Classic E.P., Modern E.P., 60's E.P., Modern E.P. 2 ORGAN: Jazz Organ, Blues Organ, Ballad Organ, Gospel Organ, Church Organ, Diapason, Full Ensemble, Diapason Oct. HARPSI & MALLETS: Harpsichord, Harpsichord 2, Vibraphone, Clavi STRINGS: Slow Strings, String Pad, Warm Strings,String Ensemble CHOIR & PAD: Choir, Choir 2, New Age, Atmosphere BASS: Wood Bass, Electric Bass, Fretless Bass, W. Bass & Ride OTHERS: 300 voices (incl. 12 drum sets)
Polyphony	max. 256 notes	
Keyboard Modes	Dual Mode, Split Mode, Four Hands Mode (Volume/Balance adjustable)	
Reverb	Room, Lounge, Small Hall, Concert Hall, Live Hall, Cathedral	
Effects	Chorus, Classic Chorus, Stereo Delay, Ping Delay, Triple Delay, Tremolo, Classic Tremolo, Phaser, Rotary1, Rotary2, Rotary3, Phaser+Amp, Auto Pan+Amp	
Virtual Technician	Voicing:	Normal, Mellow 1, Mellow 2 , Dynamic, Bright 1, Bright 2
	Resonance, Noise & Effects:	Damper Resonance, Damper Noise, String Resonance, Key-off Effect, Fall-back Noise, Hammer Delay, Topboard, Decay Time, Soft Pedal Depth
	Temperament & Tuning:	Equal, Pure Major, Pure minor, Pythagorean, Meantone, Werckmeister, Kirnberger, User Temperament, Key of Temperament
	Others:	Stretch Tuning, Stretch Curve, User Tuning, User Key Volume, Half-Pedal Adjust, Minimum Touch
Internal Recorder	3 songs, 2 tracks recorder – approximately 90,000 note memory capacity	
USB Functions	Playback:	MP3, WAV, SMF
	Record:	MP3, WAV, SMF
	Other:	Convert Song to Audio, Load Internal Song, Save Internal Song, Save SMF Song, Load Registration, Save Registration, Rename File, Delete File, Format USB
Metronome	Beat:	1/4, 2/4, 3/4, 4/4, 5/4, 3/8, 6/8, 7/8, 9/8, 12/8 + 100 drum rhythms
	Tempo:	10 - 400 bpm (20 - 800 bpm for eighth note rhythms)
Internal Songs	Demo Songs:	32 songs
	Lesson Function:	Alfred, Burgmüller, Czerny, Beyer
	Concert Magic:	88 songs
Registrations	18 memories	
Other Settings & Functions	Touch Curve Select, Key/Song Transpose, Tone Control (incl. User Tone Control), Speaker Volume, Phones Volume, Line Out Volume, Audio Recorder Gain, Tuning, Damper Hold, Four Hands, Startup Setting, Factory Reset, Lower Octave Shift, Lower Pedal On/Off, Layer Octave Shift, Layer Dynamics, MIDI Channel, Send PGM#, Local Control, Transmit PGM#, Multi-timbral Mode, Channel Mute, Auto Power Off	
Display	16 x 2 characters LCD	
Pedals	Sustain (with half-pedal support), Soft, Sostenuto	
Jacks	LINE IN (L/MONO, R), LINE OUT (L/MONO, R), Headphones x 2, MIDI (IN/OUT), USB to Host, USB to Device	
Speaker System	Speakers:	13 cm x 2 (woofer) (8 x 12 cm) x 2 (top speaker)
	Output Power:	20 W x 2
Power Consumption	20 W (PS-154 AC adaptor)	
Dimensions (not including music rack)	1382 (W) x 473 (D) x 892 (H) mm 54 ½" (W) x 18 ⅔" (D) x 35 ⅓" (H)	
Weight	55 Kg 121 lbs.	

Specifications are subject to change without notice.

KAWAI

THE FUTURE OF THE PIANO