

KAWAI

ES7 Owner's Manual

Introduction

Playing the Piano

Rhythm Section

Recorder

USB Functions

Settings

Appendix

Thank you for purchasing this Kawai ES7 digital piano.

This owner's manual contains important information regarding the usage and operation of the ES7 digital piano. Please read all sections carefully, keeping this manual handy for future reference.

■ About this Owner's Manual

Before attempting to play the ES7 digital piano, please read the **Introduction** chapter from page 10 of this owner's manual. This chapter explains the name and function of each part, how to set-up the instrument, and how to perform basic operations.

The **Playing the Piano** chapter (page 16) provides an overview of the instrument's most commonly used functions, such as selecting and combining sounds, and splitting the keyboard into separate sections. This chapter also explains how to apply reverb and effects to sounds, transpose the pitch of the keyboard, and how to use the metronome feature.

The **Rhythm Section** chapter (page 36) explains how performances can be enhanced with backing accompaniments, while the **Recorder** section (page 46) provides instructions on how to record and play back pieces stored in the instrument's internal memory, and 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 61).

The **Settings** section (page 70) details the various options and settings that can be used to adjust the sound and operation of the ES7 digital piano, in addition to explaining the instrument's useful MIDI capabilities. Finally, the **Appendix** section (page 118) includes listings for all internal sounds, demo songs, and Rhythm Section data, in addition to troubleshooting recommendations, MIDI reference information, and full specification details.

Important Safety Instructions

SAVE THESE INSTRUCTIONS

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



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 REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning 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 literature 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.

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.



- 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.



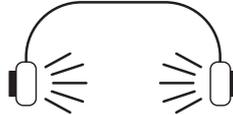
Doing so may cause electric shock.

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.

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 use the product in wet areas, or areas close to water.



Doing so may cause a short circuit, leading to an electric shock, or a fire.

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.



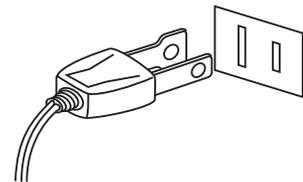
- Pulling the AC power cord itself may damage the cord, causing a fire, electric shock or short-circuit.

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.



This product shall be 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).

- Do not stand the main unit on its side for extended periods of time.
- Do not attempt to play the main unit at unusual angles.

Doing so may place stress on the keyboard action, resulting in breakdown of the product.

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.

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 AC outlet on the wall.

Canadian Radio Interference Regulations

This instrument complies with the limits for a class B digital apparatus, pursuant to the Radio Interference Regulations, C.R.C., c. 1374.

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

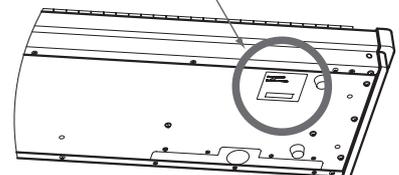
Products :	Electronic Piano
Model Number :	ES7
Responsible Party Name :	Kawai America Corporation
Address :	2055 East University Drive Rancho Dominguez, CA 90220
Telephone	310-631-1771

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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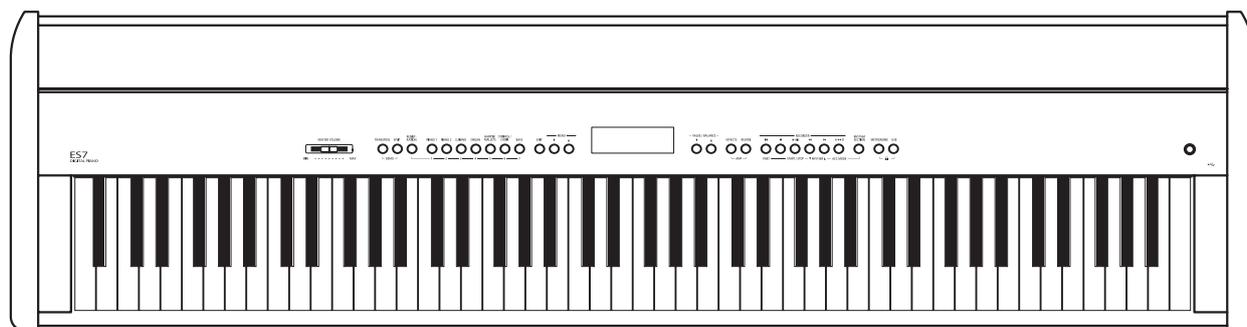
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Welcome to the Kawai ES7

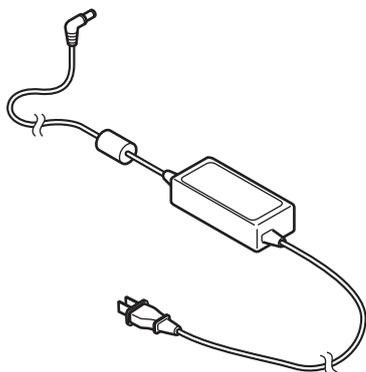
1 Package Contents

The Kawai ES7 digital piano package contains the following items:

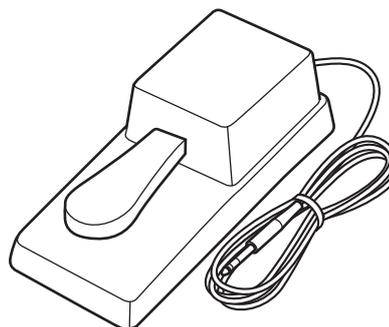
■ ES7 digital piano



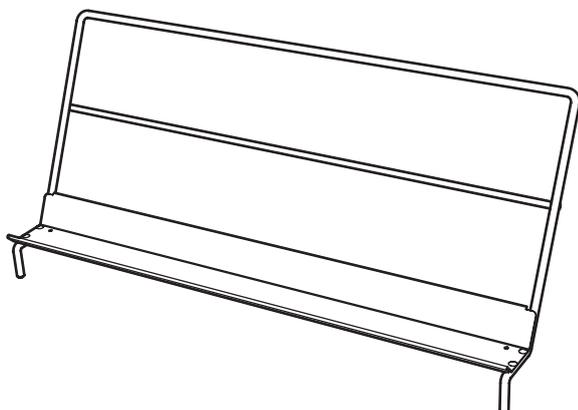
■ AC power adaptor (PS-154)



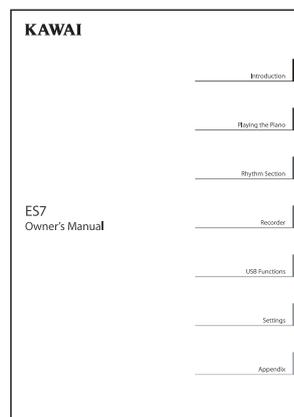
■ Foot pedal (F-10H)



■ Music rack/rest



■ Owner's manual



2 Feature Highlights

'Responsive Hammer 2' weighted-key action, with Ivory Touch key surfaces and Let-off simulation

The new *Responsive Hammer 2* (RH2) 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 ES7 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 ES7 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, in addition to subtle hammer, damper, and key release noises. This personalised piano sound is further enhanced with atmospheric reverberation effects, delivering a rich, vibrant piano tone with breathtaking realism and authenticity.

Strong selection of additional instrument sounds

Supplementing the realistic acoustic piano voices, the ES7 digital piano also features a strong selection of additional instrument sounds, ranging from electric pianos and drawbar and church organs, to string, choir, and mallet instruments, inviting musicians to add greater variety to their performances.

Furthermore, the *Dual* playing mode also allows two different sounds, such as grand piano and strings, to be layered together, while the *Split* and *Four Hands* modes divide the keyboard into two independent sections. The volume balances for each playing mode can also be adjusted quickly and easily using the real-time panel controls.

Professional accompaniment styles

Featuring a variety of styles ranging from pop and rock ballads, to jazz-funk, dance, and latin flavours, the *Rhythm Section* function of the ES7 digital piano provides solo performers with professionally arranged backing accompaniment at the touch of a button. In addition, the 100 preset chord progressions and *One Finger Ad-lib*™ solo phrases allow musicians to breathe life into their repertoire, while maintaining control over each performance.

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

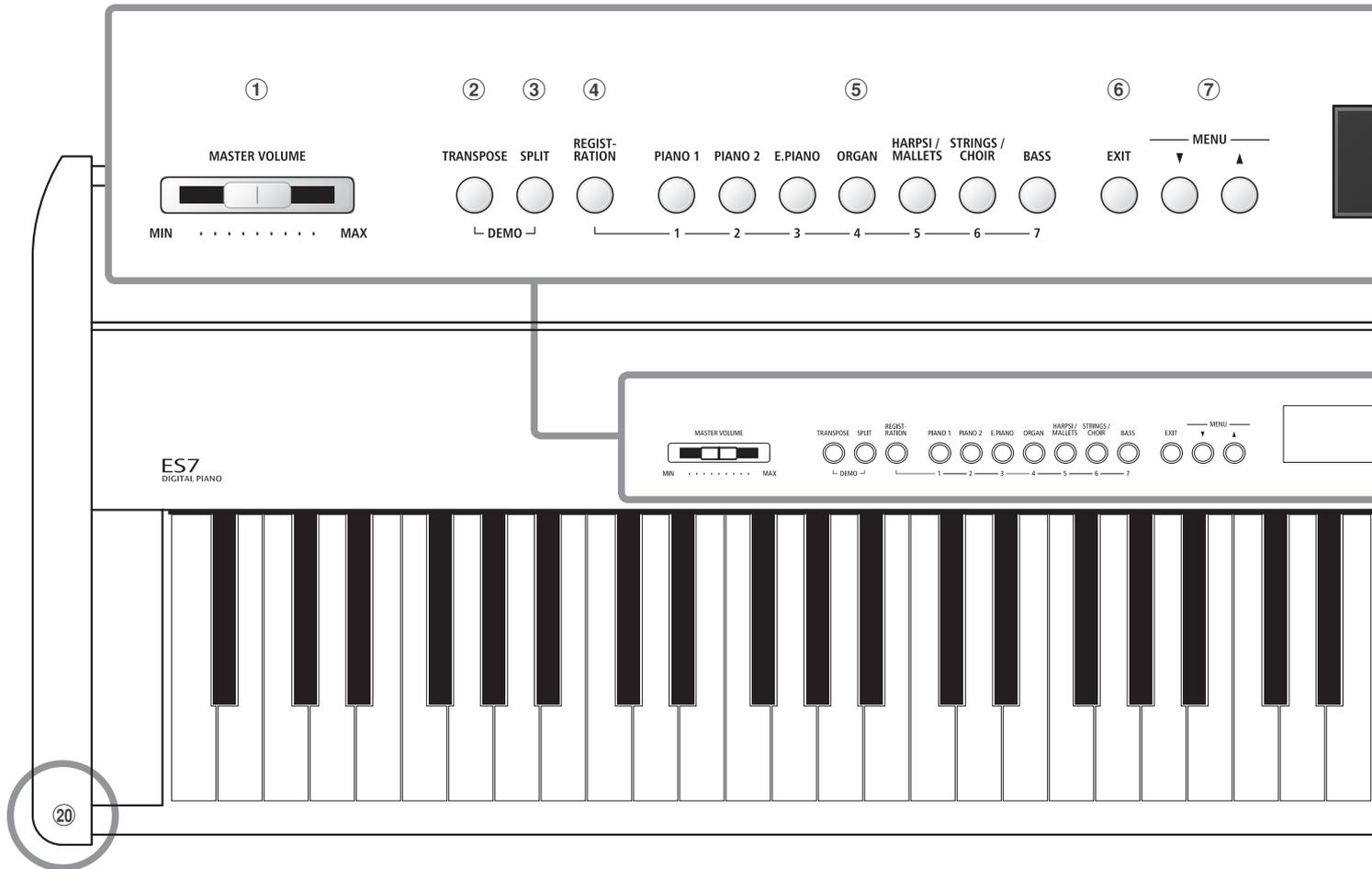
The ES7 digital piano is equipped with USB connectors that not only allow the instrument to be connected to a computer for MIDI use, but also to load and save data to USB memory devices directly. This *USB to Device* feature allows registration memories and songs recorded and stored in internal memory 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 ES7 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, while the Line-in stereo jack provides a convenient method of mixing in audio from a laptop, tablet, or other digital device.

Part Names and Functions



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 77.

② TRANSPOSE button

This button is used to adjust the pitch of the instrument's keyboard in semi-tone steps.

③ SPLIT button

This button is used to select and adjust the instrument's Split/Four Hands mode functions.

When pressed simultaneously, the TRANSPOSE and SPLIT 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 28 different Registration memories. Each Registration can store sound, Rhythm Section, reverb/effects, and Virtual Technician settings, as well as 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 EXIT button

This button is used to exit the current function, or return to the previous screen, and can also be used as a shortcut to jump to the Line Out Volume setting.

⑦ MENU buttons

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

⑧ LCD display

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

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

⑨ VALUE/BALANCE buttons

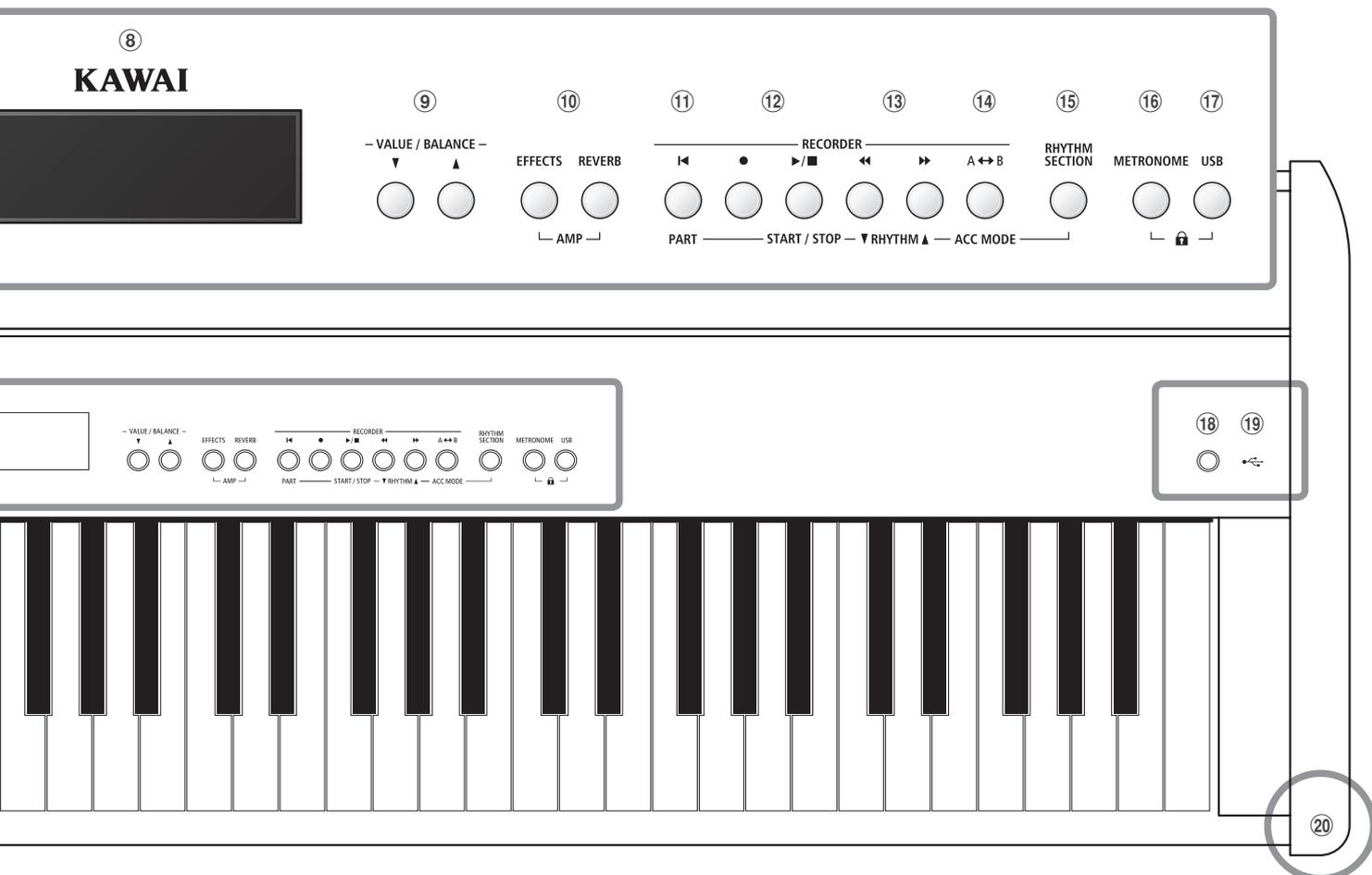
These buttons are used to adjust values, change settings, and answer on-screen prompts.

These buttons are also used to increase or decrease the volume balance when using Dual or Split playing modes.

⑩ 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.

When pressed simultaneously, the EFFECTS and REVERB buttons are also used to adjust the instrument's AMP settings.



⑪ ◀ (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.

This button is also used to select the Rhythm Section part.

⑫ ● (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.

⑬ ◀◀ (REW) and ▶▶ (FWD) 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 and Rhythm Section style.

⑭ A↔B (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.

This button is also used to select the Rhythm Section ACC mode.

⑮ RHYTHM SECTION button

This button is used to select the instrument's Rhythm Section function, featuring drum rhythms and accompaniment styles.

⑯ METRONOME button

This button is used to turn the instrument's metronome function on/off, and to adjust metronome settings.

⑰ USB button

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

When pressed simultaneously, the METRONOME and USB buttons are used to toggle the instrument's Panel Lock feature.

⑱ POWER button

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

* The ES7 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 117.

⑲ 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.

⑳ PHONES jacks

These jacks, located on either side of the keyboard, are used to connect stereo headphones to the instrument. Two pairs of headphones can be connected and used simultaneously.

* For more information about connectors/jacks, please refer to page 118.

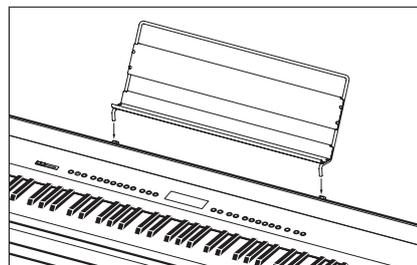
Setting Up the Piano

Upon unboxing the instrument, please follow the instructions below which explain how to attach the music rest, connect the F-10H (or optional F-20) foot pedal, and if desired, connect a pair of headphones.

■ Attaching the music rest

Insert the legs of the music rest into the holes located at the rear of the ES7 digital piano, taking care not to scratch the rear of the instrument.

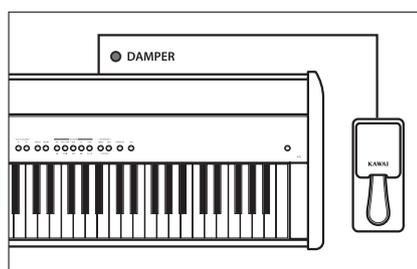
To prevent possible damage, avoid applying excessive force when attaching/detaching the music rest from the instrument.



■ Connecting the F-10H foot pedal

Connect the included Kawai F-10H foot pedal to the DAMPER pedal jack located on the rear panel of the instrument.

The foot pedal will function as a damper pedal, sustaining the sound after hands are lifted from the keyboard. This pedal is capable of responding to 'half pedaling'.



■ Connecting the optional F-20 double pedal

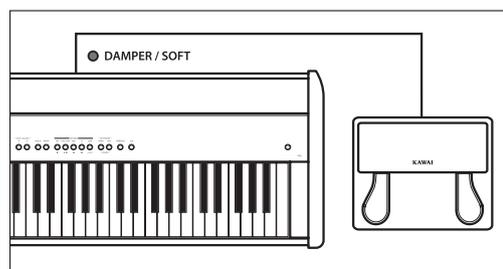
Connect the optional Kawai F-20 double pedal to the DAMPER/SOFT pedal jack located on the rear panel of the instrument.

The right pedal will function as a damper pedal, sustaining the sound after hands are lifted from the keyboard. This pedal is also capable of responding to 'half pedaling'.

The left pedal will function as a soft pedal, softening the sound and reducing its volume.

* When 'Jazz Organ' or 'Drawbar Organ' sounds are selected, the soft pedal can also be used to alternate the speed of the rotary speaker effect between 'Slow' and 'Fast' modes.

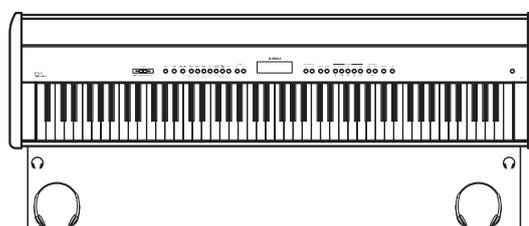
* The 'F-20 Mode' setting can be used to change the default pedalling behaviour, allowing the F-10H and F-20 pedals to be connected simultaneously to create a triple pedal system. For more information, please refer to page 80.



■ Connecting headphones

Use the jacks located on either side of the keyboard to connect stereo headphones to the ES7 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 built-in speakers.

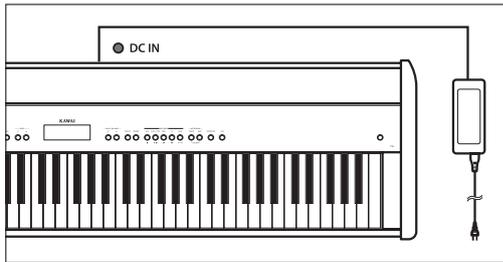


Basic Operation

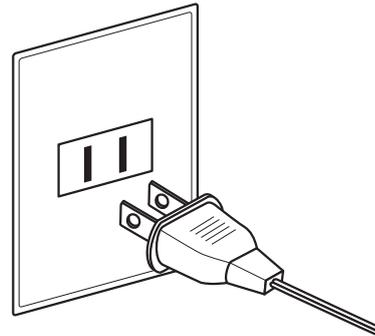
The following instructions explain how to connect the instrument to the power outlet, turn on the power, adjust the volume to a comfortable level, and begin playing the piano.

1. Connecting the power adaptor

Connect the included AC power adaptor to the 'DC IN' jack located on the rear panel of the instrument, indicated below.



Connect the AC power adaptor to an AC outlet.

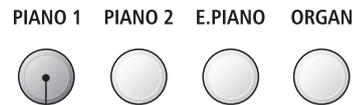
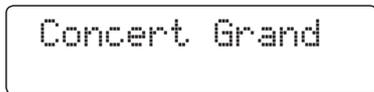


2. Turning on the instrument's power

Press the POWER button located on the right side of the instrument's control 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. The LED indicator for the PIANO 1 button will also turn on.



LED indicator on:
Sound category is selected.

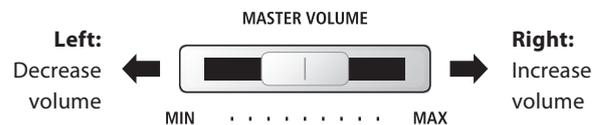
* The ES7 digital piano features a power saving mode that can turn off the instrument automatically after a specified period of inactivity. For more information, please refer to the Auto Power Off setting on page 117.

3. 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.

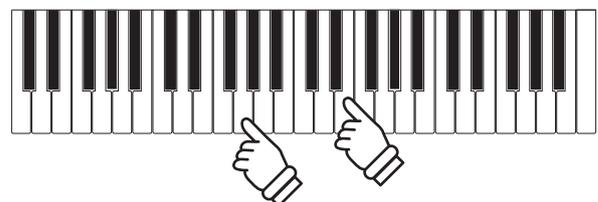


* This slider does not affect the LINE OUT level. For information about adjusting the LINE OUT level, please refer to page 77.

4. Play the piano

Begin playing the piano.

The rich sound of a Kawai EX Concert Grand Piano will be heard as the keys are pressed.



Selecting Sounds

The ES7 digital piano features a wide selection of realistic instrument sounds suitable for various musical styles. Sounds are arranged into seven categories, with multiple sounds assigned to each category button. For a complete listing of the available instrument sounds, please refer to page 122 of this owner's manual.

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

Sound categories and variations

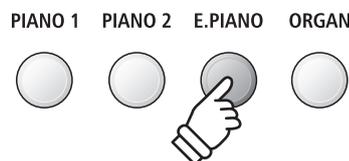
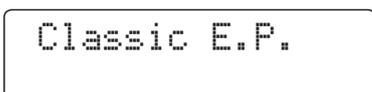
PIANO 1		PIANO 2		E. PIANO		ORGAN	
1	Concert Grand	1	Concert Grand2	1	Classic E.P.	1	Drawbar Organ
2	Studio Grand	2	Studio Grand2	2	60's E.Piano	2	Jazz Organ
3	Mellow Grand	3	Mellow Grand2	3	Modern E. P.	3	Principal Oct.
4	Modern Piano	4	Rock Piano	4	Classic E.P.2	4	Church Organ

HARPSI / MALLETS		STRINGS / CHOIR		BASS			
1	Harpichord	1	Slow Strings	5	Choir Ooh/Aah	1	Wood Bass
2	Vibraphone	2	String Pad	6	Choir Aah	2	Electric Bass
3	Clavi	3	Warm Strings	7	New Age Pad	3	Fretless Bass
4	Marimba	4	String Ensemble	8	Atmosphere	4	W. Bass & Ride

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.

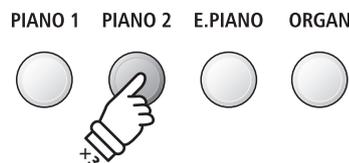
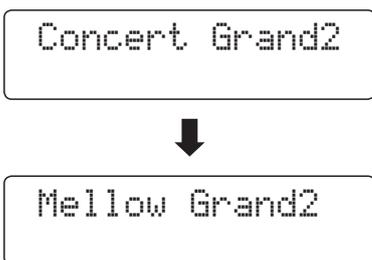


Example: To select the E.PIANO category, press the E.PIANO button.

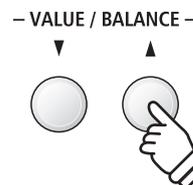
2. Changing the selected sound variation

Several sound variations are assigned to each category button.

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



Example: To select the 'Mellow Grand2' sound, press the PIANO2 button three times.



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

Demo Songs

The Demo function provides an excellent introduction to the varied capabilities of the ES7 digital piano. There are 27 different demonstration songs available, highlighting the instrument's rich selection of high quality sounds, convenient Rhythm Section feature, and powerful speaker system.

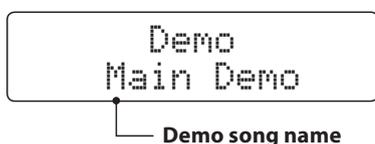
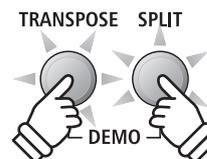
For a complete listing of the available demonstration songs, please refer to page 121 of this owner's manual.

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

1. Entering demo mode

Press the TRANSPOSE and SPLIT buttons simultaneously.

The LED indicators for both buttons will start to flash to indicate that demo mode is in use, and the Main Demo song will start to play.



* When the Main Demo song has finished, a sound demo song will be selected at random, and will start to play.

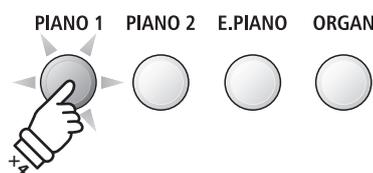
2. Selecting a demo song

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

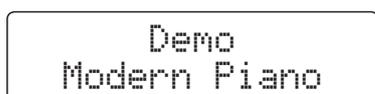
Press the desired SOUND button.

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.



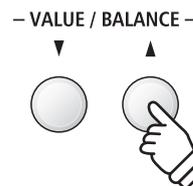
Example: To select the Modern Piano demo song, press the PIANO1 button four times.



In addition, press the RHYTHM SECTION button to play the Rhythm Section demo song.

* When the Rhythm Section song has finished, the Main Demo song will be re-selected, and will start to play.

The ▼ or ▲ VALUE buttons can also be used to cycle through all of the different demo songs.



3. Stopping the demo song and exiting demo mode

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

Press the EXIT or PLAY/STOP button.

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



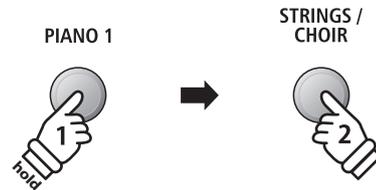
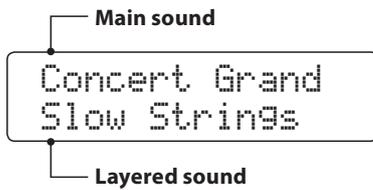
Dual Mode

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.

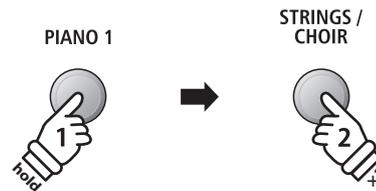
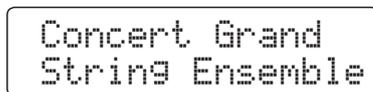


Example: To layer the 'Slow Strings' sound with the 'Concert Grand' sound, press and hold the PIANO1 button, then press the STRINGS/CHOIR button.

2. Changing the main/layered sounds

To select a different variation for the layered sound:

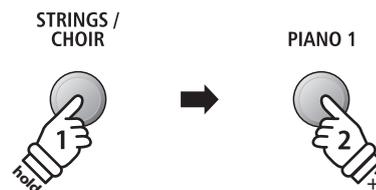
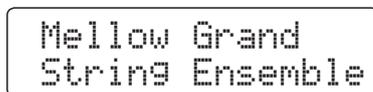
Press and hold the main SOUND button, then press the layered SOUND button repeatedly to cycle through the different sound variations.



Example: To change the layered 'Slow Strings' sound to the 'String Ensemble' sound, press and hold the PIANO1 button, then press the STRINGS/CHOIR button twice.

To select a different variation for the main sound:

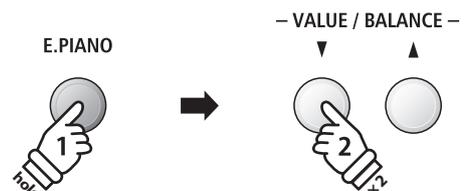
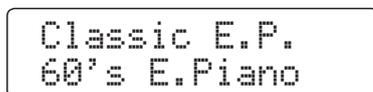
Press and hold the layered SOUND button, then press the main SOUND button repeatedly to cycle through the different sound variations.



Example: To change the main 'Concert Grand' sound to the 'Mellow Grand' sound, press and hold the STRINGS/CHOIR button, then press the PIANO1 button three times.

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.



Example: To layer the 'Classic E.P.' and '60's E.Piano' sounds together, press and hold the E.PIANO button, then press the VALUE ▼ button twice.

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

3. Adjusting the main/layered sound volume balance

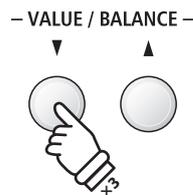
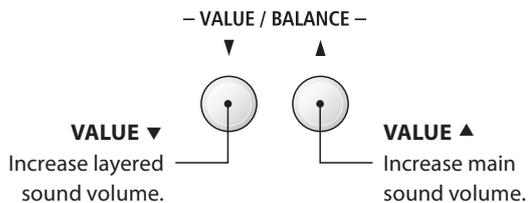
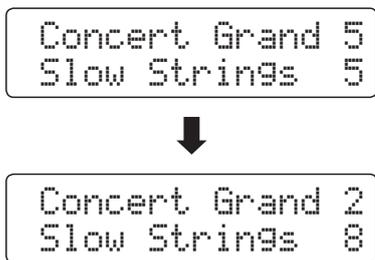
While Dual mode is in use:

Press the ▼ or ▲ VALUE/BALANCE buttons to adjust the volume balance between the main and layered sounds.

The volume balance will briefly be shown in the LCD display.

As the volume of the main sound increases, the volume of the layered sound decreases, and vice versa. The ratio of the two sounds will always total 10 (e.g. 5-5, 3-7, 9-1, etc.).

* The default Dual mode volume balance is 5-5.



Example: To increase the volume of the layered sound to 8 (and decrease the volume of the main sound to 2), press the VALUE ▼ button three times.

* 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 100 for more information.

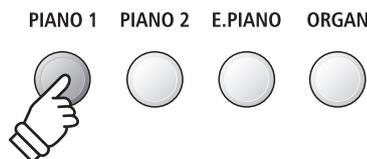
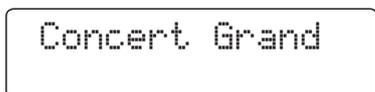
* The Layer Dynamics setting can be used to adjust the dynamic sensitivity of the layered sound. Please refer to page 101 for more information.

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.



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.

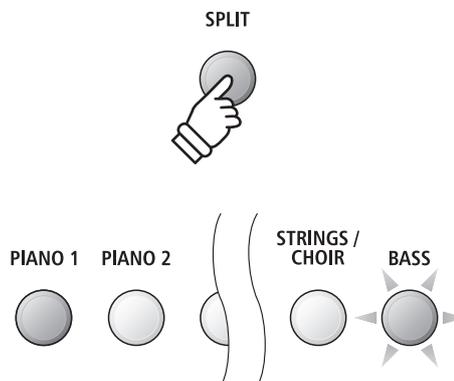
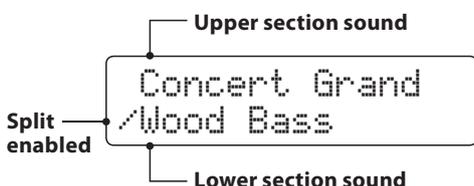
1. Entering Split mode

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 F#2 and G2.

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.

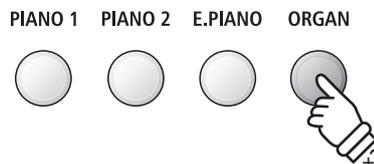
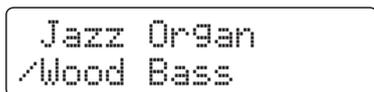


Default Split mode:
The previously selected sound is used for the upper section, and the 'Wood Bass' sound is selected for the lower section.

2. Changing the upper/lower section sounds

To select a different sound for the upper section:

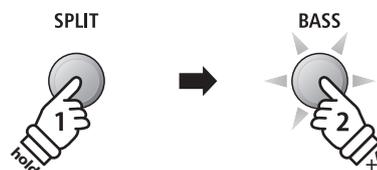
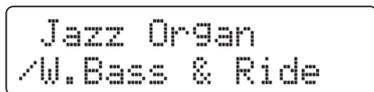
Press the desired SOUND button.



Example: To select the 'Jazz 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.



Example: To select the 'W. Bass & Ride' sound for the lower section, press and hold the SPLIT button, then press the BASS button four times.

- * The Lower Octave Shift setting can be used to adjust the octave range of the lower section. Please refer to page 97 for more information.
- * The Lower Pedal setting can be used to enable/disable the damper pedal for the lower section. Please refer to page 98 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

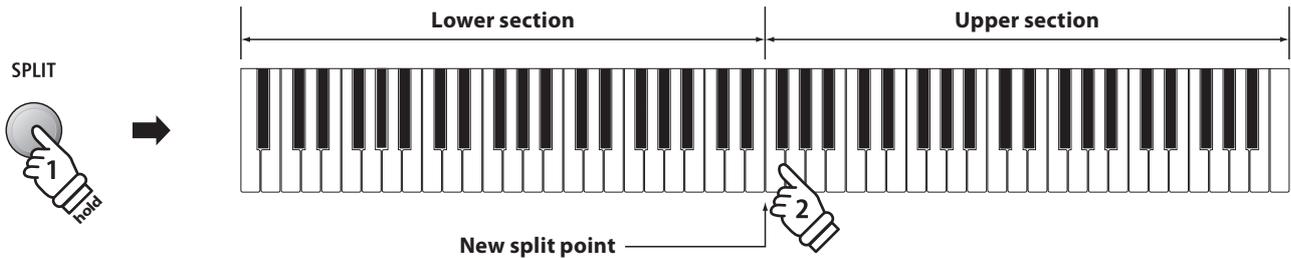
Press and hold the SPLIT button, then press the desired split key on the keyboard.

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

* Split Mode and the Rhythm Section share the same split point.



Example: To set the split point to key F3, press and hold the SPLIT button, then press the F3 key.



4. Adjusting the upper/lower sound volume balance

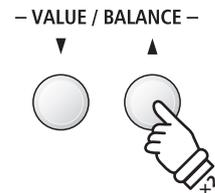
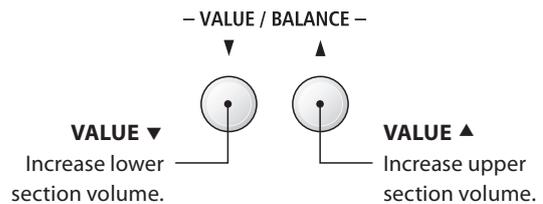
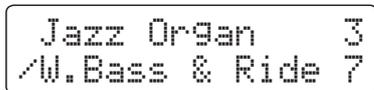
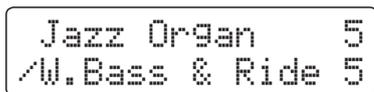
While Split mode is in use:

Press the ▼ or ▲ VALUE/BALANCE buttons to adjust the volume balance between the upper and lower sections.

The volume balance will briefly be shown in the LCD display.

As the volume of the upper sound increases, the volume of the lower sound decreases, and vice versa. The ratio of the two sounds will always total 10 (e.g. 5-5, 3-7, 9-1, etc.).

* The default Split mode volume balance is 5-5.



Example: To increase the volume of the lower section sound to 7 (and decrease the volume of the upper section sound to 3), press the VALUE ▲ button twice.

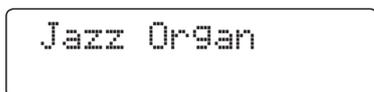
* The preferred Split mode upper/lower volume balance can also be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

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.



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.

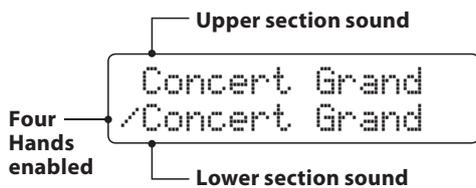
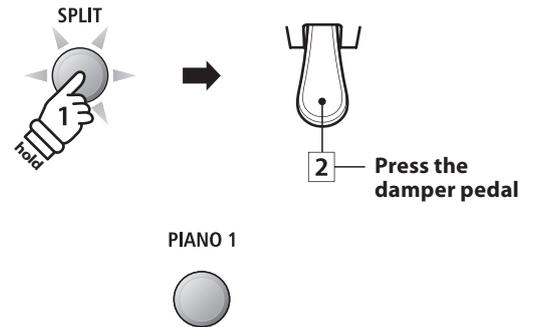
1. Entering Four Hands mode

Press and hold the SPLIT button, then press the damper pedal.

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 E3 and F3.

The LED indicator for the PIANO1 button will turn on, and the 'Concert Grand' sound will automatically be selected for both the upper and lower sections.

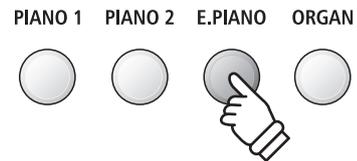
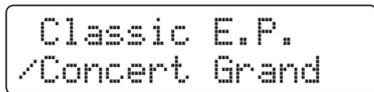


Default Four Hands mode:
The 'Concert Grand' sound is selected for both the upper and lower sections.

2. Changing the upper/lower section sounds

To select a different sound for the upper section:

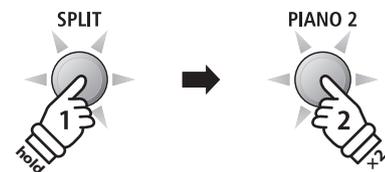
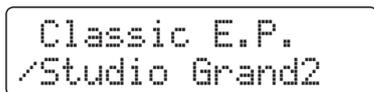
Press the desired SOUND button.



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

To select a different sound for the lower section:

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



Example: To select the 'Studio Grand2' sound for the lower section, press and hold the SPLIT button, then press the PIANO2 button twice.

* If the included F-10H foot pedal is connected to the instrument, the pedal will function as a damper pedal for the upper section only. However, if the optional F-20 double pedal is connected, the right (sustain) and left (soft) pedals will function as independent damper pedals for the upper and lower sections respectively.

* 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.

3. Changing the Four Hands mode split point

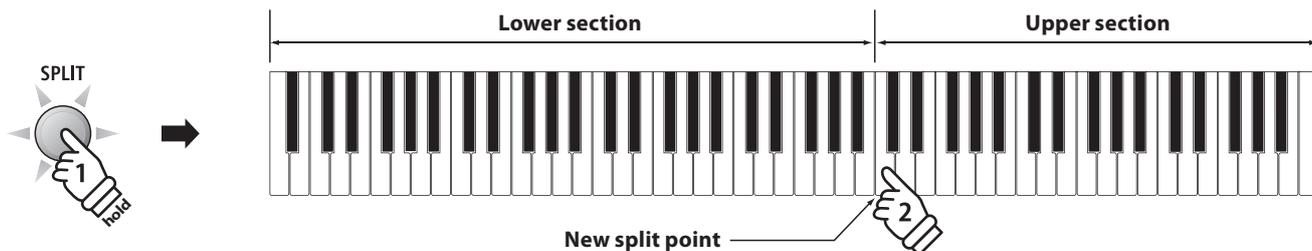
Press and hold the SPLIT button, then press the desired split key on the keyboard.

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

* The Four Hands Mode split point can be changed independently of the Split Mode and Rhythm Section split point.



Example: To set the split point to key C4, press and hold the SPLIT button, then press the C4 key.



4. Adjusting the upper/lower sound volume balance

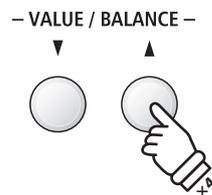
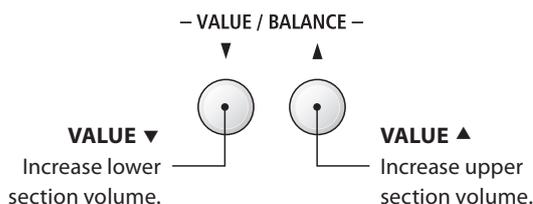
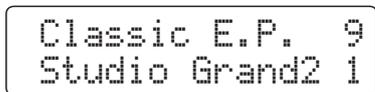
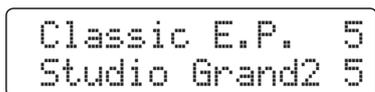
While Four Hands mode is in use:

Press the ▼ or ▲ VALUE/BALANCE buttons to adjust the volume balance between the upper and lower sections.

The volume balance will briefly be shown in the LCD display.

As the volume of the upper sound increases, the volume of the lower sound decreases, and vice versa. The ratio of the two sounds will always total 10 (e.g. 5-5, 3-7, 9-1, etc.).

* The default Four Hands mode volume balance is 5-5.



Example: To increase the volume of the upper section sound to 9 (and decrease the volume of the lower section sound to 1), press the VALUE ▼ button four times.

* 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.

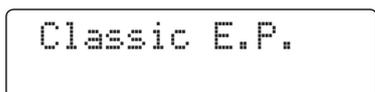
5. Exiting Four Hands mode

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



Enhancing the Sound

The ES7 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 the strength 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 ES7 digital piano features six different reverb types.

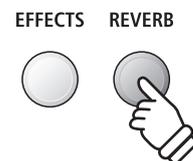
■ Reverb types

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

1. Turning Reverb on/off

Press the REVERB button to turn reverb on/off.

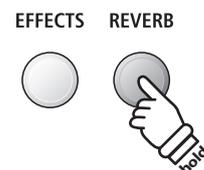
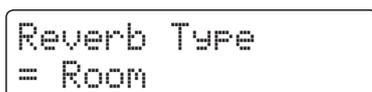
The LED indicator for the REVERB button will turn on to indicate when reverb is in use, and the current status will briefly be shown in the LCD display.



2. Entering the Reverb settings menu

Press and hold the REVERB button.

The reverb settings menu will be shown in the LCD display.



■ Reverb settings

Reverb setting	Description	Range
Type	Changes the type of environment.	-
Depth	Adjusts the depth of the environment (i.e. amount of reverberation to apply).	1 - 10
Time	Adjusts the decay length/speed of the reverberation.	1 - 10

3. Adjusting the Reverb settings (type/depth/time)

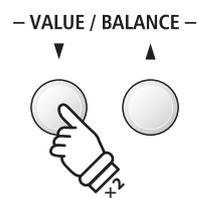
While the reverb settings menu is shown, to change the reverb type:

Press the ▼ or ▲ VALUE buttons to cycle through the different reverb types.

Reverb Type
= Room



Reverb Type
= Small Hall



Example: To change the reverb type from 'Room' to 'Small Hall', press the VALUE ▼ button twice.

To change the reverb depth:

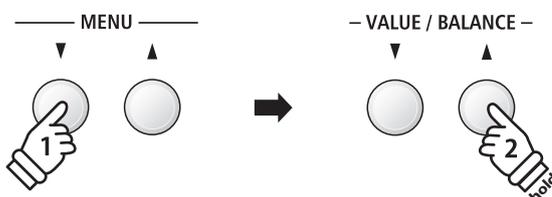
Press the ▼ or ▲ MENU buttons to select the 'Reverb Depth' page, then press the ▼ or ▲ VALUE buttons to decrease or increase the reverb depth setting.

* The reverb depth setting can be adjusted within the range of 1 - 10.

Reverb Depth
= 5



Reverb Depth
= 10



Example: To increase the reverb depth, press the MENU ▼ button to select the 'Reverb Depth' page, then press and hold the VALUE ▲ button.

To change the reverb time:

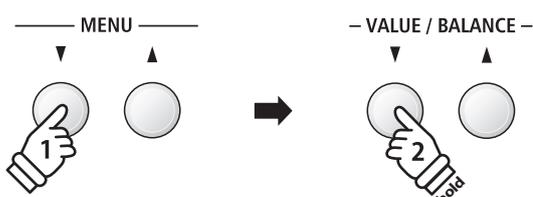
Press the ▼ or ▲ MENU buttons to select the 'Reverb Time' page, then press the ▼ or ▲ VALUE buttons to decrease or increase the reverb time setting.

* The reverb time setting can be adjusted within the range of 1 - 10.

Reverb Time
= 5



Reverb Time
= 2



Example: To reduce the reverb time, press the MENU ▼ button to select the 'Reverb Time' page, then press and hold the VALUE ▼ button.

To exit the reverb settings menu and return to normal playing mode, press the EXIT button or wait 4 seconds.

EXIT



* Reverb settings are independent for each sound variation.

* Any changes made to the reverb type, settings, 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.

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 ES7 digital piano features eleven different effect types, and four combination effects.

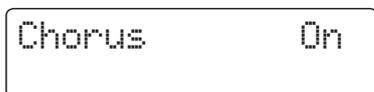
Effect types

Effect type	Description
Stereo Delay	Adds 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 it is 'bouncing' from left to right.
Triple Delay	Similar in principle to Ping Delay, but with an additional centre echo.
Chorus	Layers a slightly detuned version of the sound over the original, thus enriching its tonal character.
Classic Chorus	Similar in principle to Chorus, but intended for vintage electric piano sounds.
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.
Auto Pan	Alternates the sound output from left to right across the stereo field using a sine wave.
Classic Auto Pan	Similar in principle to Auto Pan, but intended for vintage electric piano sounds.
Rotary	Simulates the sound of a rotary speaker commonly used with vintage electronic organs. * Pressing the ▼ and ▲ MENU buttons simultaneously alternates the speed of the rotary simulation between 'Slow' and 'Fast' effect modes. If the optional F-20 double pedal is connected, the left (soft) pedal can also be used.
Phaser	Applies a cyclic phase change to the sound, giving the impression that the sound is moving.
Combination Effects	Different combinations of the above effects, applied simultaneously. * Combination effect types: Phaser+Chorus, Tremolo+Chorus, Phaser+AutoPan, Chorus+Chorus

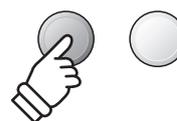
1. Turning Effects on/off

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.



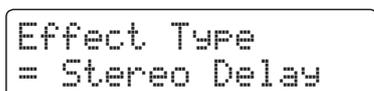
EFFECTS REVERB



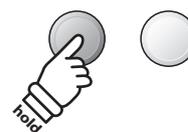
2. Entering the Effects settings menu, selecting the Effect type

Press and hold the EFFECTS button.

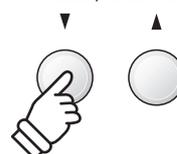
The first page of the effects settings menu will be shown in the LCD display.



EFFECTS REVERB



– VALUE / BALANCE –



Press the ▼ or ▲ VALUE buttons to cycle through the different effect types.

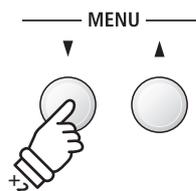
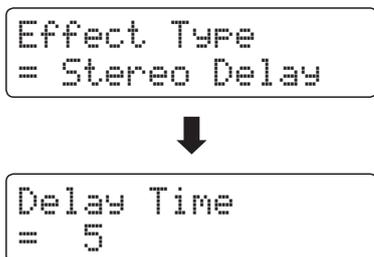
Effect settings

Effect type	Setting 1	Setting 2	Setting 3	Setting 4
Stereo Delay / Ping Delay / Triple Delay	Dry / Wet	Time	Feedback	High Damp
Chorus	Dry / Wet	Speed	Feedback	Depth
Classic Chorus	Mono / Stereo	Speed	-	-
Tremolo	Dry / Wet	Speed	-	-
Classic Tremolo	Dry / Wet	Speed	-	-
Auto Pan	Dry / Wet	Speed	-	-
Classic Auto Pan	Dry / Wet	Speed	-	-
Rotary	Accel. Speed	Rotary Speed	Chorus	Balance
Phaser	Dry / Wet	Speed	Feedback	Depth
Combination Effects	Dry / Wet	Speed		

3. Selecting and adjusting the Effect settings

While the effects settings menu is shown in the LCD display:

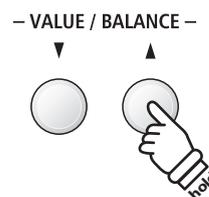
Press the ▼ or ▲ MENU buttons to cycle through the different effects settings pages.



Example: To select the 'Delay Time' effects setting, press the MENU ▼ button twice.

Press the ▼ or ▲ VALUE buttons to adjust the value of the selected effects setting.

* Effect settings can be adjusted within the range of 1 - 10.



Example: To increase the 'Delay Time' effects setting, press and hold the VALUE ▲ button.

To exit the effects settings menu and return to normal playing mode, press the EXIT button or wait 4 seconds.

EXIT



* Effects settings are independent for each sound variation.

* Any changes made to the effect type, settings, 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.

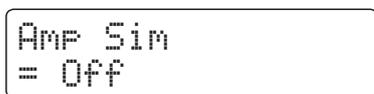
3 Amp Simulator

The ES7's Amp Simulator (Amp Sim) attempts to reproduce the sound, response, and overdrive characteristics of a typical amp/speaker combination, giving electric piano and drawbar organ sounds an authentic vintage quality. Once enabled, the amplifier type can be selected, with adjustable drive, level, and Low/Hi EQ settings. As with the Reverb and Effects functions, selecting certain sounds will enable the Amp Sim automatically.

1. Turning the Amp Sim on/off

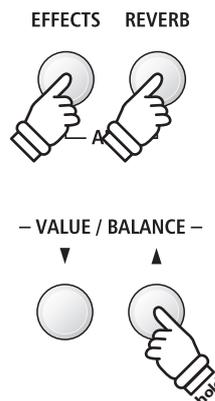
Press the EFFECTS and REVERB buttons simultaneously.

The amp sim settings menu will be shown in the LCD display.



Press the ▼ or ▲ VALUE buttons to turn the amp sim on/off.

* If Dual or Split/Four Hands modes are selected, the Amp Sim will not affect the layered or lower section sounds.



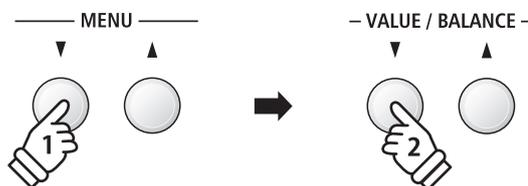
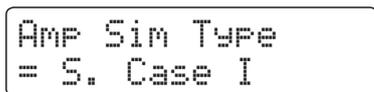
■ Amp Sim settings

Amp Sim setting	Description	Range
Type	Selects the amplifier/speaker type.	See below
Drive	Adjusts the drive (overdrive) level of the selected amplifier.	1 - 10
Level	Adjusts the volume level of the selected amplifier.	1 - 10
EQ Low	Adjusts the low frequency EQ level of the selected amplifier.	-6 dB - +6 dB
EQ High	Adjusts the high frequency EQ level of the selected amplifier.	-6 dB - +6 dB

2. Changing the Amp Sim type

While the amp sim settings menu is shown in the LCD display:

Press the ▼ or ▲ MENU buttons to select the Amp Sim Type setting, then press the ▼ or ▲ VALUE buttons to cycle through the different amp sim types.



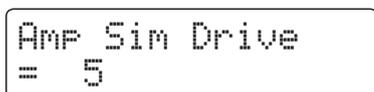
■ Amp Sim types

Amp Sim type	Description
S. Case I	A distantly miked suitcase type speaker, suitable for vintage electric piano sounds.
S. Case II	A closely miked suitcase type speaker, suitable for vintage electric piano sounds.
L. Cabinet	A speaker enclosed within a wooden cabinet, suitable for vintage drawbar organ sounds.

3. Adjusting the Amp Sim settings (drive/level/eq low/eq high)

While the amp sim settings menu is shown in the LCD display:

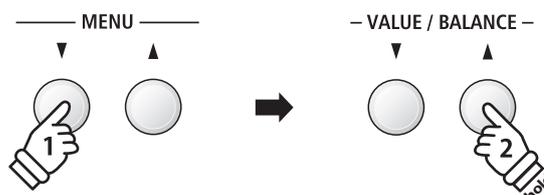
Press the ▼ or ▲ MENU buttons to cycle through the different amp sim settings pages, then press the ▼ or ▲ VALUE buttons to adjust the value of the selected amp sim setting.



To exit the amp sim settings menu and return to normal playing mode, press the EXIT button or wait 4 seconds.

* Amp sim settings are independent for each sound variation.

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



Example: To increase the drive of the amp sim, press the MENU ▼ button to select the 'Amp Sim Drive' page, then press and hold the VALUE ▲ button.

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

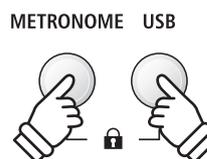
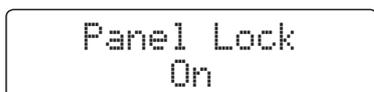
Panel Lock

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.

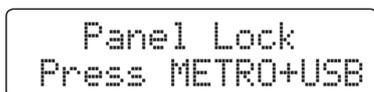
1. Activating the Panel Lock

Press the METRONOME and USB buttons simultaneously.

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



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

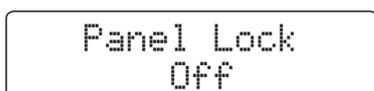


* When activated, the Panel Lock will remain even after the power is turned off/on.

2. Deactivating the Panel Lock

Press the METRONOME and USB 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.



Transpose

The Transpose function allows the pitch of the ES7 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.

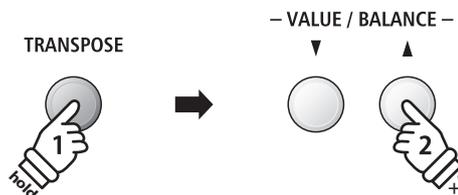
The LED indicator for the TRANSPOSE button will turn on to indicate that the transpose function is in use, and the key transpose value will briefly be shown in the LCD display.

Key Transpose
= 0 (C)

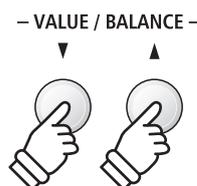


Key Transpose
= +4 (E)

- * 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.



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.



■ Adjusting the Key Transpose value: Method 2

Press and hold the TRANSPOSE button, then press a key within the range of C2 to C4.

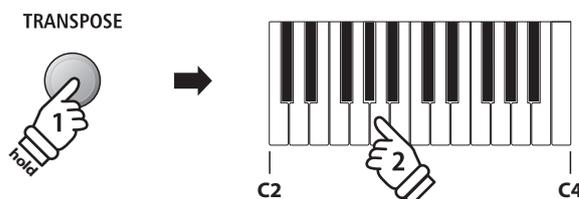
The LED indicator for the TRANSPOSE button will turn on to indicate that the transpose function is in use, and the key transpose value will briefly be shown in the LCD display.

Key Transpose
= 0 (C)



Key Transpose
= -3 (A)

- * The keyboard pitch can be adjusted within the range of C2 to C4.



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.

■ Turning Key Transpose on/off

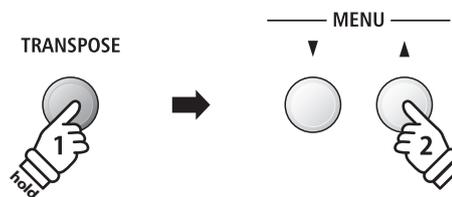
Press the TRANSPOSE button to turn the key transpose function on/off.

- * The specified key transpose setting will be retained even after the key 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

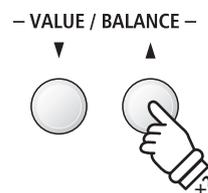
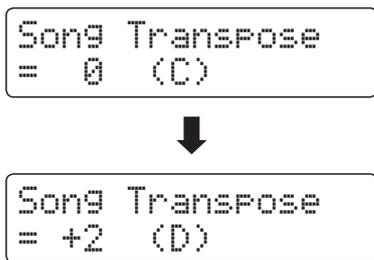
Press and hold the TRANSPOSE button, then press the ▼ or ▲ MENU buttons to alternate between the key transpose and song transpose settings.



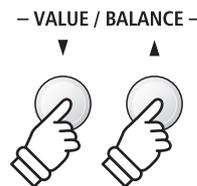
■ Adjusting the Song Transpose value

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

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



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.



- * 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.

Metronome

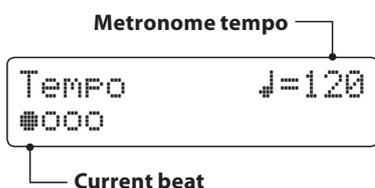
The Metronome function provides a steady beat to aid practicing the piano at a consistent tempo. The time signature, volume, and tempo of the metronome can all be freely adjusted.

1. Turning the Metronome on/off

Press the METRONOME button.

The LED indicator for the METRONOME button will turn on to indicate that the metronome function is in use, and a 1/4 beat will start to count.

The current metronome tempo in beats per minute (BPM) and beat of the bar will also be shown in the LCD display.



Press the EXIT or METRONOME button again to stop the metronome.

The LED indicator for the METRONOME button will turn off, the beat will stop counting, and the LCD display will return to the normal playing mode screen.

METRONOME



EXIT



or

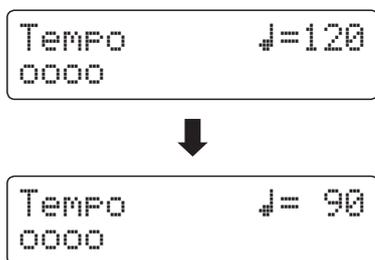
METRONOME



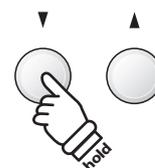
2. Adjusting the Metronome settings (tempo/beat/volume)

While the Metronome tempo screen is shown in the LCD display, to adjust the metronome tempo:

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



— VALUE / BALANCE —



Example: To decrease the tempo of the metronome, press and hold the VALUE ▼ button.

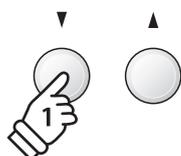
* The metronome tempo can be adjusted within the range of 10 - 400 beats per minute (BPM).

To adjust the metronome beat (time signature):

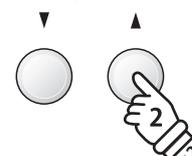
Press the ▼ or ▲ MENU buttons to select the 'Beat' page, then press the ▼ or ▲ VALUE buttons to cycle through the different metronome beat (time signature) types.

* There are ten different types of beat (time signature) available: 1/4, 2/4, 3/4, 4/4, 5/4, 3/8, 6/8, 7/8, 9/8, and 12/8.

— MENU —



— VALUE / BALANCE —

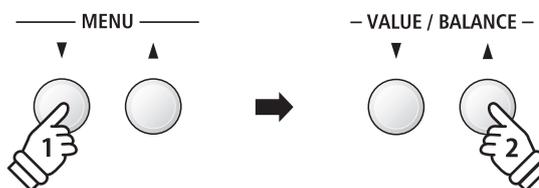
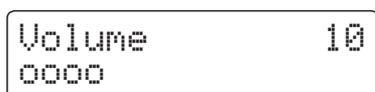
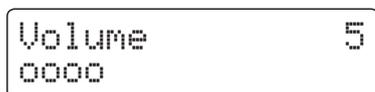


Example: To change the beat (time signature) from 1/4 to 3/4, press the MENU ▼ button to select the 'Beat' page, then press and the VALUE ▼ button twice.

2. Adjusting the Metronome settings (tempo/beat/volume)

To adjust the metronome volume:

Press the ▼ or ▲ MENU buttons to select the 'Volume' page, then press the ▼ or ▲ VALUE buttons to adjust the value of the metronome volume.



Example: To increase the volume of the tempo, press the MENU ▼ button to select the 'Volume' page, then press and the VALUE ▲ button.

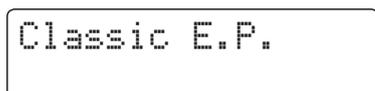
- * The metronome volume can be adjusted within the range of 0 - 10.
- * Any changes made to the metronome tempo, beat, or volume settings will remain until the power is turned off.
- * Preferred metronome settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

■ Changing sounds while the Metronome is in use

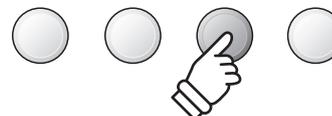
Press the desired SOUND button.

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.



PIANO 1 PIANO 2 E.PIANO ORGAN



Example: To select the 'Classic E.P.' sound, press the E.PIANO button.

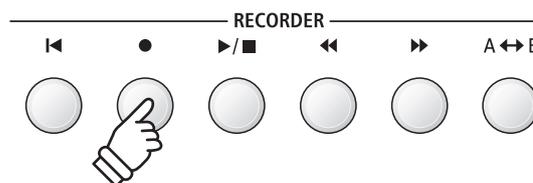
■ Jump to Recorder shortcut

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 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/style selection, all settings, etc.) to be stored to a registration memory, and conveniently recalled at the touch of a button. Each of the seven registration buttons contain four banks (A, B, C, and D), allowing up to 28 different registration memories to be stored.

Registrations can also be loaded from/saved to USB memory devices. Please refer to page 61 for more information.

Settings stored in Registration memories

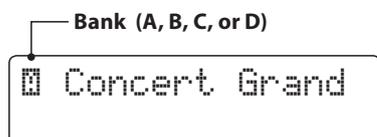
General	Settings
Selected sound	Basic Settings*
Dual Mode / Split Mode (sounds, volume balance, split point)	Virtual Technician
Reverb, Effects, Amp Simulator (type, settings)	Rhythm Settings
Transpose (Key Transpose only)	Key Settings
Metronome (Beat, Tempo, Volume)	MIDI Settings

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

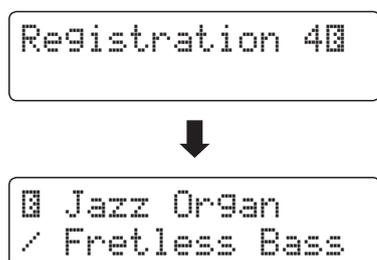
Selecting a Registration memory

Press the REGISTRATION button.

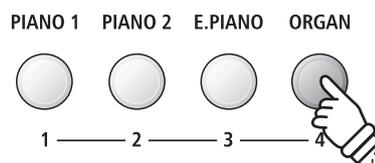
The LED indicator for the REGISTRATION button will turn on to indicate that the registration function is in use, and the registration selection screen will be shown in the LCD display.



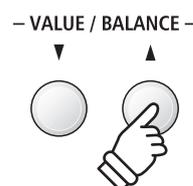
Press the SOUND buttons to select the desired registration memory. Press the same SOUND button repeatedly to cycle through the four banks (A, B, C, and D).



Alternatively, press the ▼ or ▲ VALUE buttons to cycle through all 28 different registration memories.



Example: To select registration memory 4B, press the ORGAN button (memory #4) twice.



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.



■ Exiting Registration mode (retain new settings)

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

Press the EXIT button.

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

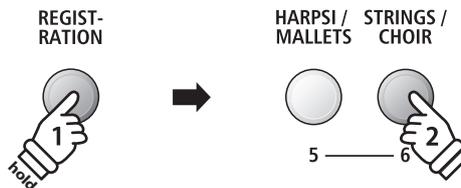
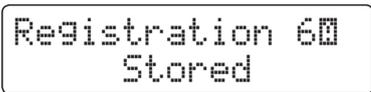


■ Storing a Registration memory

To store a registration memory to the current banks (e.g. bank A):

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.



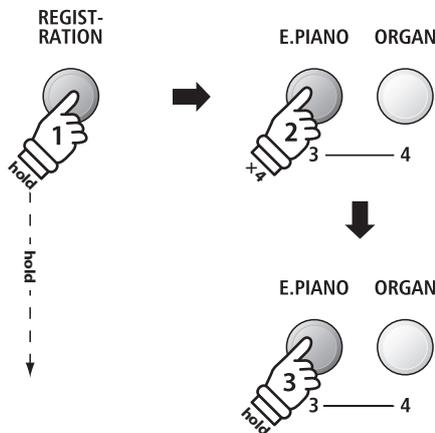
Example: To store the current instrument setup to memory 6A, press and hold the REGISTRATION button, then press the STRINGS/CHOIR button.

To store a registration memory to a different banks (e.g. bank D):

Press and hold the REGISTRATION button, press the same SOUND button repeatedly to cycle through the four banks (A, B, C, and D), then press and hold the SOUND button.

* The ▼ or ▲ VALUE buttons can also be used to change the bank.

The current instrument setup will be stored to the registration memory and bank specified, and a confirmation message will be briefly shown in the LCD display.



Example: To store the current instrument setup to memory 3D, press and hold the REGISTRATION button, press the E.PIANO button four times, then press and hold the same E.PIANO button.

■ Resetting all Registration memories

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

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



Rhythm Section Basic Operation

The ES7's Rhythm Section feature contains 100 built-in accompaniment styles, covering a wide range of musical genres. Each style can be used simply as a drum or percussion track, or as a full musical accompaniment with bass, guitar, organ, brass, etc. parts. In addition, each style includes separate introduction, fill-in, variation, and ending passages, allowing musicians to enliven their performances at the touch of a button.

For a complete listing of the available Rhythm Section styles, please refer to page 125 of this owner's manual.

Rhythm Section pattern types

Pattern type	Description	No. of bars
Count-in (drums only)	A short introduction pattern used to count-in the Basic/Variation pattern.	1 or 2
Basic	A simple, unobtrusive backing accompaniment pattern.	4 or 8
Variation	A more complicated version of the basic pattern, with additional phrases etc.	4 or 8
Fill-in	A short pattern that can be used when repeating phrases or as a bridge between the Basic and Variation patterns.	1
Ending	A short pattern used to bring the currently playing accompaniment style to an end.	1

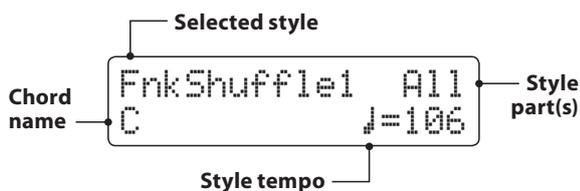
1. Entering the Rhythm Section

Press the RHYTHM SECTION button.

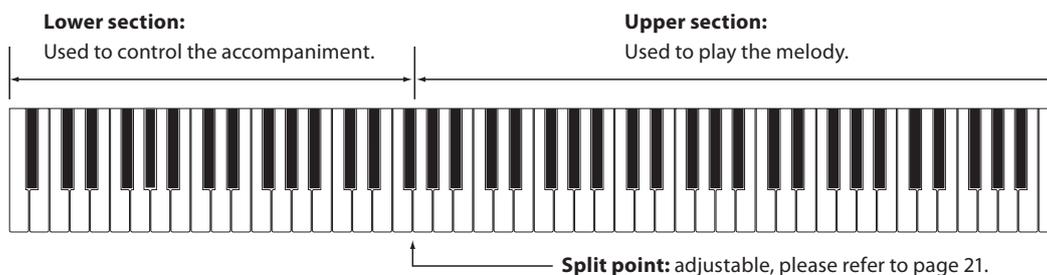
The LED indicator for the RHYTHM SECTION button will turn on to indicate that the Rhythm Section is in use.

Information about the currently selected style will also be shown in the LCD display.

RHYTHM SECTION



The keyboard will be split into lower and upper sections, used to control the accompaniment and play the melody respectively. By default, the lower section keys will not produce a sound unless Split Mode is turned on.



* The default split point is set between keys F#2 and G2.

* The Rhythm Section and Split Mode share the same split point. Please refer to page 21 for information about changing the split point.

* The 'Full Keyboard' ACC Mode setting allows the entire keyboard to be used for both playing the melody and controlling the rhythm section key/chord without lower/upper section splits. Please refer to page 44 for more information.

2. Playing with the Rhythm Section

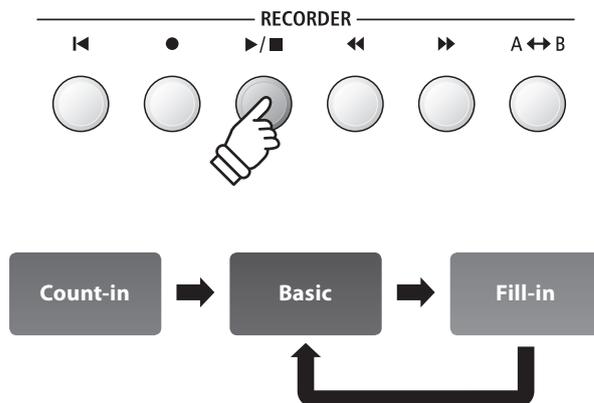
Press the PLAY/STOP button.

The LED indicator for the PLAY/STOP button will turn on, and the count-in drum pattern will start to play.

After the Count-in, the Rhythm Section will change to the Basic pattern. During this time, the lower section of the keyboard can be used to control the Rhythm Section accompaniment, and the upper section of the keyboard can be used to play the melody.

After 8 bars of the Basic pattern have been played, the Rhythm Section will automatically play the Fill-in pattern.

* Please refer to page 42 for more information about the Rhythm Section's Auto Fill-in function.



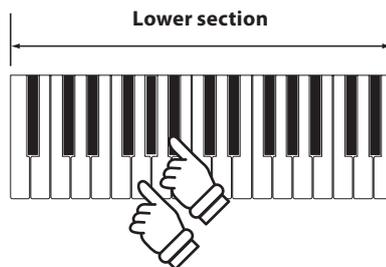
3. Adding the full backing accompaniment

Play single or full-fingered chords in the lower section of the keyboard.

The full backing accompaniment will begin to play in the key specified, and the name of the chord will be shown in the LCD display.

* The Rhythm Section recognises 15 different chords types, including most inversions. Please refer to page 126 for more information.

* By default, only the upper section of the keyboard can be used to play the melody. When the ACC Mode setting is set to 'Full Keyboard' or 'Preset Chord' however, all 88 keys of the keyboard can be played freely. Please refer to page 107 for more information.



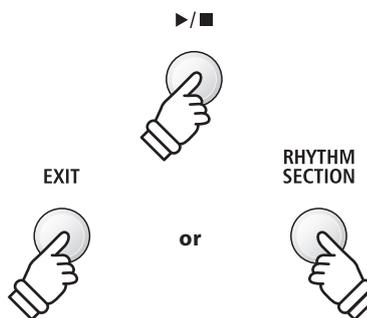
Example: To play the backing accompaniment in the key of G minor, press the G and B^b keys in the lower section simultaneously.

4. Stopping and exiting the Rhythm Section

Press the PLAY/STOP button again.

The Rhythm Section will play the ending pattern, the backing accompaniment will stop, and the LED indicator for the PLAY/STOP button will turn off.

Press the EXIT or RHYTHM SECTION button again to return to normal playing mode.



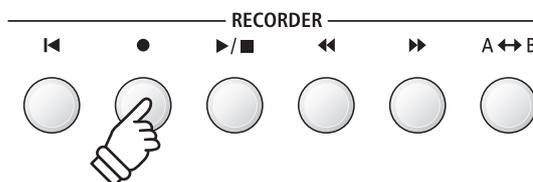
Jump to Recorder function

While the Rhythm Section function is in use:

Press the REC button.

The Recorder selection screen will be shown in the LCD display, with the current Rhythm Section pattern/settings pre-selected.

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



Rhythm Section Style

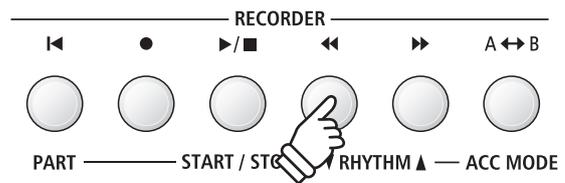
The ES7 digital piano features 100 different accompaniment styles, ranging from Pop, Rock, Ballads, and Jazz, to Funk, Dance, Latin, and World Music styles.

For a complete listing of the available Rhythm Section styles, please refer to page 125 of this owner's manual.

Selecting the Rhythm Section style

While the main Rhythm Section screen is shown in the LCD display:

Press the ▼ or ▲ RHYTHM (REW or FWD) buttons to cycle through the different Rhythm Section styles.



FnkShuffle1 All
C ♩=106



LatinGroove All
C ♩=120

Each style features both a 'basic' and 'variation' pattern. If the 'variation' pattern is selected, a [variation symbol] symbol will be shown in the LCD display.

Variation pattern
LatinGroove [variation symbol] All
C ♩=120

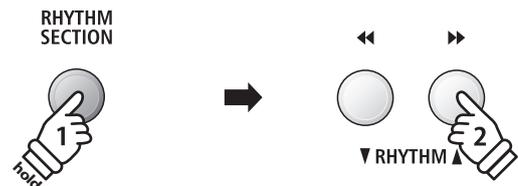
* The selected Rhythm Section style setting will remain until the power is turned off.

* The preferred Rhythm Section style can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

Jump to Rhythm Section genre

It is also possible to cycle through the different Rhythm Section genres, instead of individual styles.

Press and hold the RHYTHM SECTION button, then press the ▼ or ▲ RHYTHM (REW or FWD) buttons to cycle through the different Rhythm Section genres.



LatinGroove [variation symbol] All
C ♩=120



FunkyBeat4 All
C ♩=130

Rhythm Section Parts

Each Rhythm Section style consists of several different instrument parts. It is possible to specify whether the Rhythm Section should play drums only, bass and drums, or a full backing accompaniment.

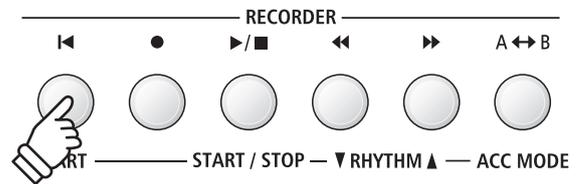
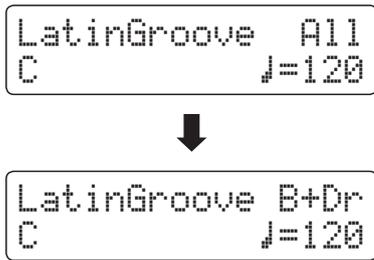
Rhythm Section parts

R.S. Parts	LCD display	Description
Drums	Drum	The Rhythm Section will play a drum track only.
Bass & Drums	B+Dr	The Rhythm Section will play both bass and drum tracks.
All Parts (default)	All	The Rhythm Section will play a full backing accompaniment (drums, bass, guitar, etc.)

Changing the Rhythm Section parts

While the main Rhythm Section screen is shown in the LCD display:

Press the PART (RESET) button to cycle through the different Rhythm Section part settings.



- * The selected Rhythm Section parts setting will remain until the power is turned off.
- * The preferred Rhythm Section parts setting can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

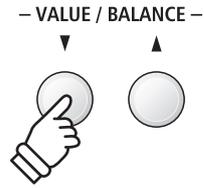
Rhythm Section Settings

■ Adjusting the Rhythm Section tempo

While the main Rhythm Section screen is shown in the LCD display:

Press the ▼ or ▲ VALUE buttons to decrease or increase the tempo of the Rhythm Section.

* The Rhythm Section and Metronome share the same tempo setting.



■ Rhythm Section settings

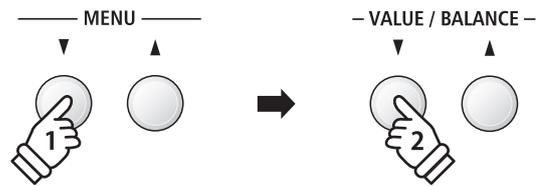
Page no.	Setting	Description	Default setting
1	Rhythm Volume	Adjust the volume of the Rhythm Section	5
2	Auto Fill-in	Specify how frequently an Auto Fill-in will be played.	8 bars
3	O.F. Ad-lib	Turn the 'One Finger Ad-lib' feature on or off.	Off
4	ACC Mode	Specify the chord input mode used for the Rhythm Section accompaniment.	Normal
	Preset Chord	Select the preset chord progression type.	Chord 1

* The Preset Chord page will only appear when ACC Mode is set to 'Preset Chord'.

■ Selecting and adjusting the Rhythm Section settings

Press the ▼ or ▲ MENU buttons to select the Rhythm Settings menu, then press the VALUE ▲ button to enter the Rhythm Settings menu.

Press the ▼ or ▲ MENU buttons to cycle through the different Rhythm Section settings pages.



```
4 RhythmSettings
  →Press VALUE▲
```



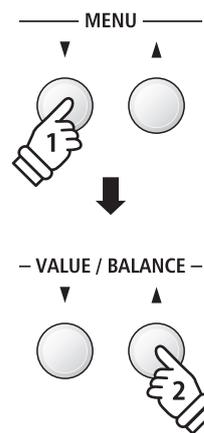
```
4-1 Rhythm Vol.
  = 5
```

Press the ▼ or ▲ VALUE buttons to adjust the value of the selected Rhythm Section setting.

```
4-1 Rhythm Vol.
  = 5
```



```
4-1 Rhythm Vol.
  = 10
```



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

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

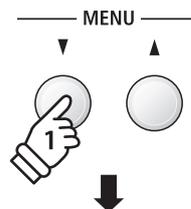
1 Rhythm Volume

The Rhythm Volume setting is used to adjust the volume level of the Rhythm Section accompaniment, relative to the main keyboard sound.

■ Adjust the Rhythm Volume setting

While the Rhythm Settings menu is shown in the LCD display:

Press the ▼ or ▲ MENU buttons to select the Rhythm Volume settings page, then press the ▼ or ▲ VALUE buttons to adjust the volume level of the Rhythm Section.



4-1 Rhythm Vol.
= 5



4-1 Rhythm Vol.
= 10

- * The Rhythm Volume setting can be adjusted within the range of 1 - 10.
- * Any changes made to the Rhythm Volume setting will remain until the power is turned off.
- * The preferred Rhythm Volume setting can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

■ Jump to Rhythm Volume setting shortcut

It is also possible to access the Rhythm Volume setting directly while the Rhythm Section is in use.

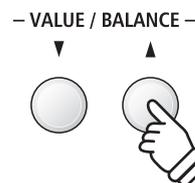
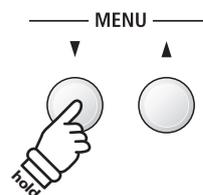
Press and hold the MENU ▼ or MENU ▲ buttons.

The Rhythm Volume setting will be shown in the LCD display.

FrkShuffle1 All
C J=108



4-1 Rhythm Vol.
= 5



Press the ▼ or ▲ VALUE buttons to adjust the Rhythm Volume setting.

To exit the Rhythm Volume setting and return to the previous screen, press the EXIT button twice.

2 Auto Fill-in

The Auto Fill-in setting is used to specify how many bars of the Rhythm Section should be played before a fill-in passage is automatically added. This function can be turned off if the Auto Fill-in feature is not required.

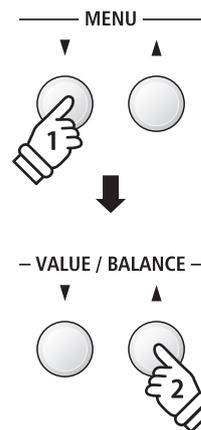
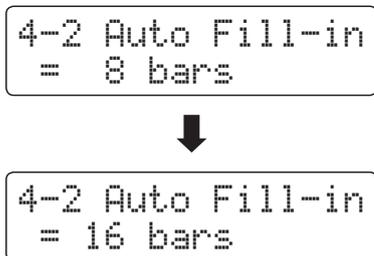
■ Auto Fill-in settings

Auto Fill-in setting	Description
Off	The Rhythm Section will not play a fill-in passage automatically.
4 bars	The Rhythm Section will play an automatic fill-in passage after every 4 bars.
8 bars (default)	The Rhythm Section will play an automatic fill-in passage after every 8 bars.
12 bars	The Rhythm Section will play an automatic fill-in passage after every 12 bars.
16 bars	The Rhythm Section will play an automatic fill-in passage after every 16 bars.

■ Changing the Auto Fill-in setting

While the Rhythm Settings menu is shown in the LCD display:

Press the ▼ or ▲ MENU buttons to select the Auto Fill-in settings page, then press the ▼ or ▲ VALUE buttons to change the value.



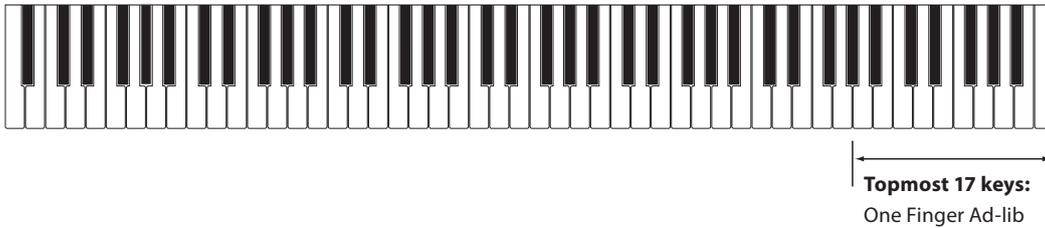
* Any changes made to the Auto Fill-in setting will remain until the power is turned off.

* The preferred Auto Fill-in setting can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

3 One Finger Ad-lib

The One Finger Ad-lib setting is used to turn the Rhythm Section's One Finger Ad-lib function on or off.

When turned on, One Finger Ad-lib allows various musical phrases to be performed at any time by pressing one of the topmost 17 keys on the keyboard. Each phrase will play for one bar, and will match the key/chord currently used by the Rhythm Section accompaniment.



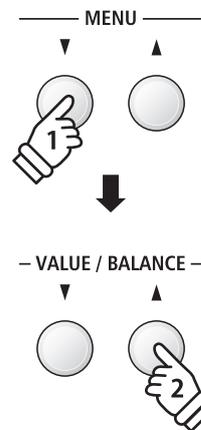
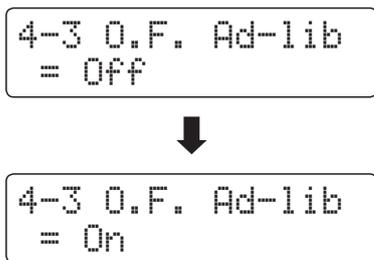
One Finger Ad-lib settings

One Finger Ad-lib setting	Description
Off (default)	A One Finger Ad-lib phrase will not be played when pressing one of the topmost 17 keys.
On	A One Finger Ad-lib phrase will be played when pressing one of the topmost 17 keys.

Changing the One Finger Ad-lib setting

While the Rhythm Settings menu is shown in the LCD display:

Press the ▼ or ▲ MENU buttons to select the One Finger Ad-lib settings page, then press the ▼ or ▲ VALUE buttons to turn the One Finger Ad-lib feature on or off.



* Any changes made to the One Finger Ad-lib setting will remain until the power is turned off.

* The preferred One Finger Ad-lib setting can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

4 ACC Mode

The ACC Mode setting is used to select the Rhythm Section's chord input method.

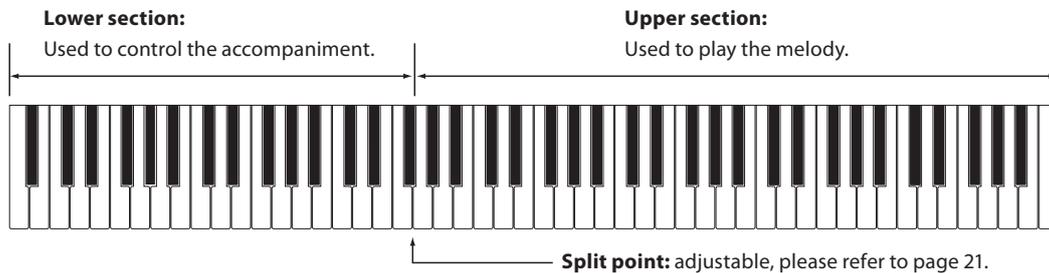
By default, the Rhythm Section will follow chords played in the lower section only, with the upper section reserved for playing the melody. However, when the 'Full Keyboard' mode is selected, the entire keyboard can be used to play the melody, with the ES7 detecting and changing the Rhythm Section chord/key automatically.

Finally, when the 'Preset Chord' mode is selected, the Rhythm Section will follow the preset chord sequence specified on the Preset Chord settings page. For a complete listing of the available Rhythm Section Preset Chord sequences, please refer to page 130 of this owner's manual.

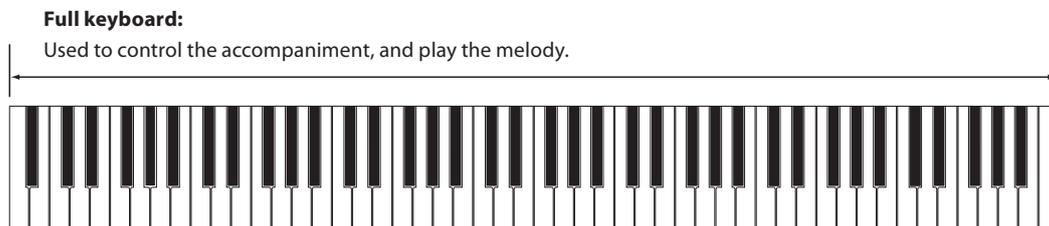
■ ACC Mode settings

ACC Mode setting	Rhythm Section play/control mode
Normal (default)	Upper section plays melody, lower section controls Rhythm Section key.
Full Keyboard	Full keyboard plays melody, and controls Rhythm Section key.
Preset Chord	Full keyboard plays melody, Rhythm Section changes key automatically.

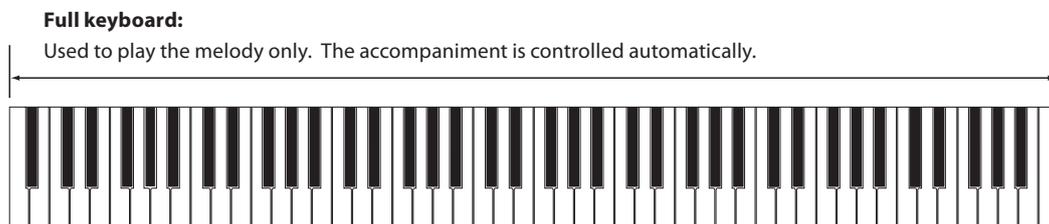
■ Normal



■ Full Keyboard



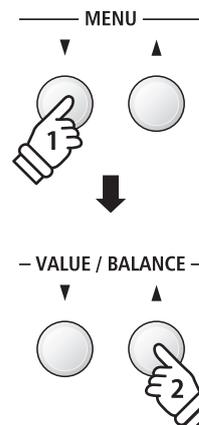
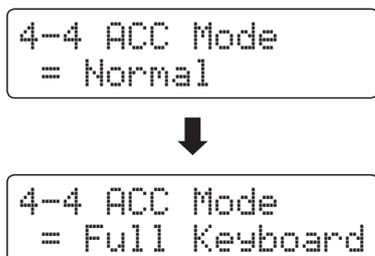
■ Preset Chord



■ Changing the ACC Mode setting

While the Rhythm Settings menu is shown in the LCD display:

Press the ▼ or ▲ MENU buttons to select the ACC Mode settings page, then press the ▼ or ▲ VALUE buttons to cycle through the different chord recognition methods.



* The Auto Fill-in feature will be disabled when the 'Preset Chord' method is selected. However, the Rhythm Section will automatically play a fill-in pattern at the end of the final bar of the specified Preset Chord sequence.

* Any changes made to the ACC Mode setting will remain until the power is turned off.

* The preferred ACC Mode setting can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

Preset Chord

The Preset Chord setting is used to specify which preset chord sequences the Rhythm Section will follow.

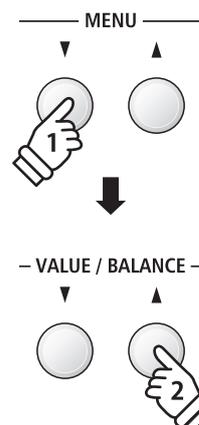
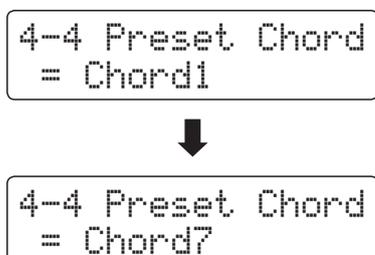
For a complete listing of the available Rhythm Section Preset Chord sequences, please refer to page 130 of this owner's manual.

* This setting will only appear when the ACC Mode setting is set to 'Preset Chord'. Please refer to page 44 for more information.

■ Changing the Preset Chord setting

While the Rhythm Settings menu is shown in the LCD display:

Press the ▼ or ▲ MENU buttons to select the Preset Chord settings page, then press the ▼ or ▲ VALUE buttons to cycle through the different Preset Chord sequences.



* The A-B LOOP button can also be used to quickly turn the Preset Chord function on/off without entering the ACC Mode settings page.

* When selecting a different style, the Preset Chord setting will reset to the default Preset Chord sequence for that style.

* The preferred Preset Chord setting can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

Song Recorder (Internal memory)

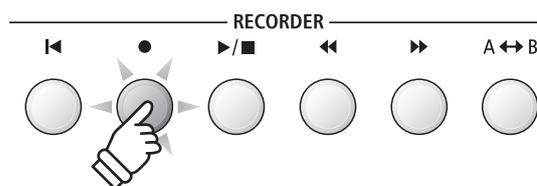
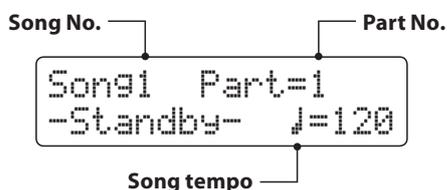
The ES7 digital piano allows up to 10 different songs to be recorded, stored in internal memory, and played back at the touch of a button. Each song consists of two separate tracks - referred to as 'parts' - that can be recorded and played back independently. This allows the left-hand part of a song 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.

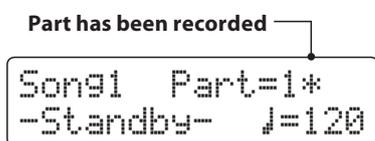


* If a USB memory device is connected, press the MENU ▲ button to select the 'Int. Recorder' function.

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

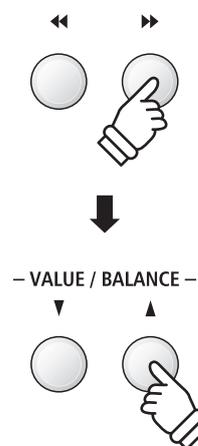
2. Selecting the song/part to be recorded

Press the REW or FWD buttons to select the internal song memory (1-10) to be recorded to.



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.



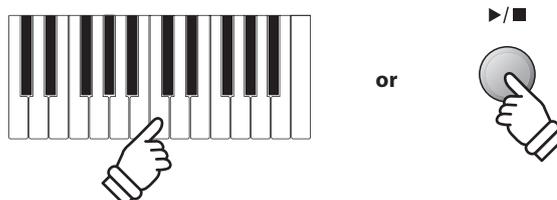
When recording part 1 and part 2 separately, select the song and part number carefully in order to prevent accidentally overwriting a previously recorded part.

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.



* 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 song recorder

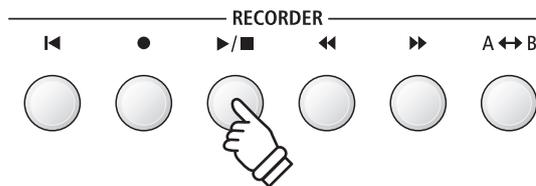
Press the PLAY/STOP button.

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      J=120
```

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



* 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 metronome 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

Changes made to the sound type. (SOUND buttons etc.)

Switching between dual/split modes.

Panel operations NOT remembered during recording*

Changes made to the reverb settings.

Changes made to the effects settings.

Changes made to the tempo.

Changes made to the volume balance in dual/split mode.

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 the EXIT button to exit the Internal Song Recorder.

The instrument will return to normal playing mode.

EXIT



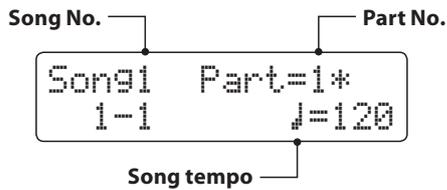
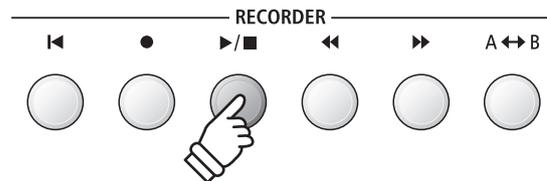
2 Playing a Song

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.

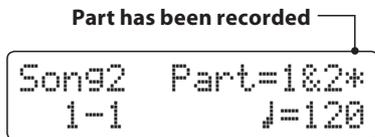
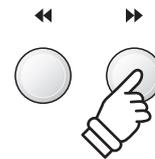
The LED indicator for the PLAY/STOP button will turn on, and the Internal Song Player screen will be shown in the LCD display.



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

2. Selecting the song/part to be played back

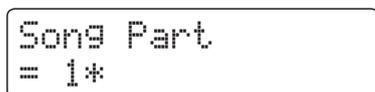
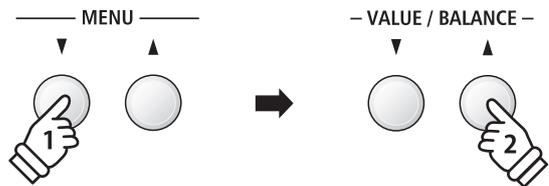
Press the REW or FWD buttons to select the internal song memory (1-10) to be played back.



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

To select the part(s) of the song to be played back:

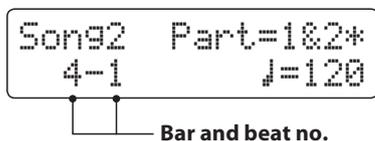
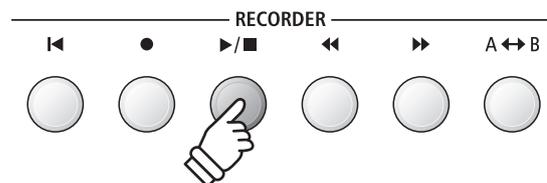
Press the ▼ or ▲ MENU buttons to select the Song Part setting, then press the ▼ or ▲ VALUE buttons to select the desired part(s).



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.



■ Controlling song playback

While the song is playing:

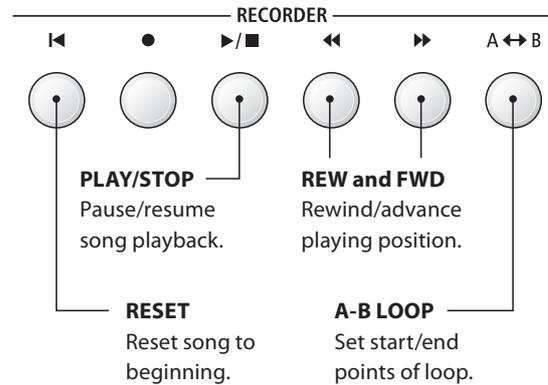
Press the REW or FWD buttons to rewind or advance the playing position of the song.

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.

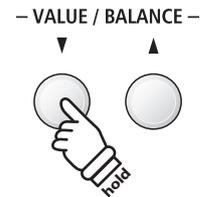


■ Adjusting the playback tempo

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).

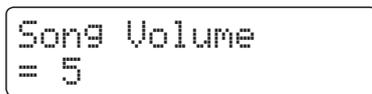


■ Adjusting playback settings (playback menu)

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.

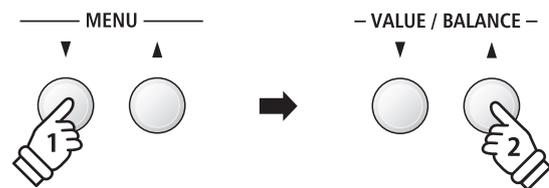


* The song volume setting can be adjusted within the range of 1 - 10.

* 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 EXIT button to return to the Internal Song Play screen.



EXIT



4. Exiting song play mode

Press the EXIT button to exit the Internal Song Player.

The instrument will return to normal playing mode.

EXIT



3 Recording a Song with the Rhythm Section

It is also possible to record songs while using the Rhythm Section. This feature can be used to record backing accompaniments (including chord changes) for favourite songs, allowing the player to concentrate on the melody or improvised solos using the full keyboard.

The Rhythm Section can only be recorded to Part 1 of each song memory.

1. Entering the Rhythm Section

Press the RHYTHM SECTION button.

The LED indicator for the RHYTHM SECTION button will turn on to indicate that the Rhythm Section is in use.

Make any changes to the Rhythm Section settings (style, volume, tempo, parts, ACC mode etc.)

* Please refer to page 40 for more information.

RHYTHM SECTION

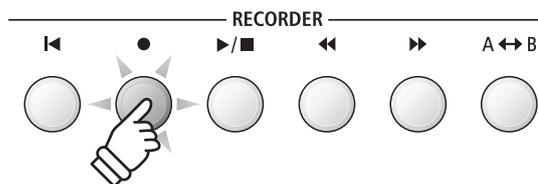


2. Entering song recorder mode

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.

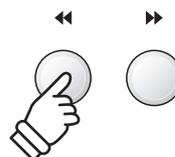
* If a USB memory device is connected, press the MENU ▲ button to select the 'Int. Recorder' function.



3. Selecting the song to be recorded

Press the REW or FWD buttons to select the internal song memory (1-10) to be recorded to.

* Part 1 must be selected in order to record the Rhythm Section. The Rhythm Section will not be recorded if Part 2 is selected.

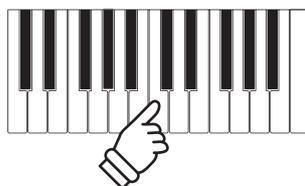


4. Starting the song recorder

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, and recording will start with the Rhythm Section playing.

Press the PLAY/STOP button to stop the recording.



or



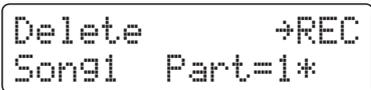
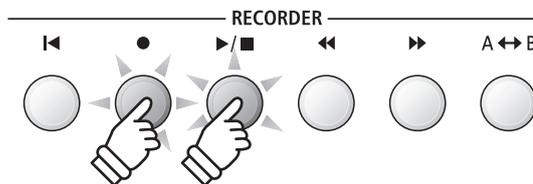
4 Erasing a Part/Song

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

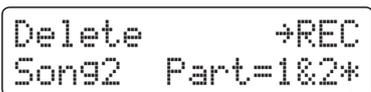
Press the REC and PLAY/STOP buttons simultaneously.

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.



2. Selecting a song and part(s) to be erased

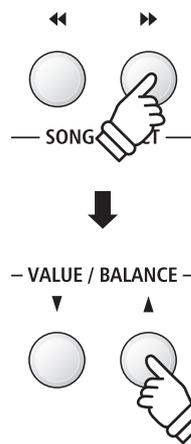
Press the REW or FWD buttons to select the internal song memory (1-10) to be erased.



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.

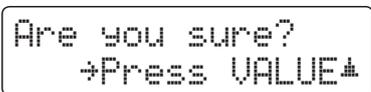
* If a part has already been recorded, a * symbol will be shown.



3. Erasing the selected song and part(s)

Press the REC button.

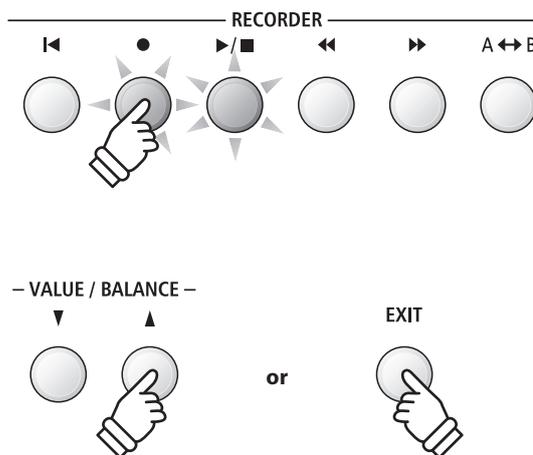
A confirmation message will be shown in the LCD display, prompting to confirm or cancel the erase operation.



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

Press the EXIT button to to cancel the erase operation.

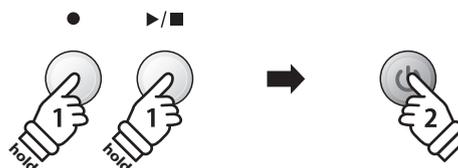
* If cancelled, press the PLAY/STOP button to return to the Play Internal screen, or REC button to return to the Record Internal screen.



■ 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 ES7 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.

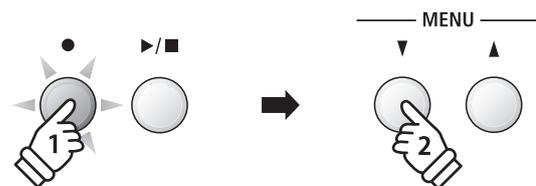
1 Recording an Audio file

1. Entering USB recorder mode

Connect a USB memory device to the USB port.

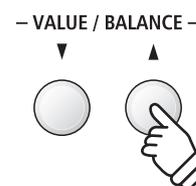
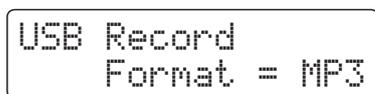
Press the REC button, then press the MENU ▼ button to select the 'USB Recorder' function.

The LED indicator for the REC button 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).



* MP3 audio files require less storage space than WAV audio files.

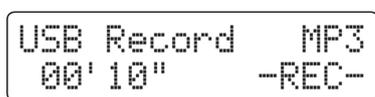
* A 1 GB USB memory device can store over 12 hours of MP3 audio data.

3. Starting the audio recorder

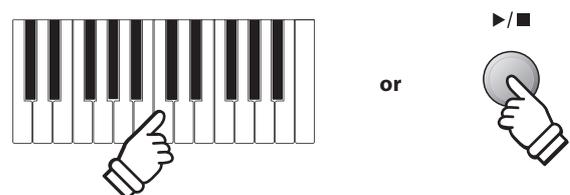
Press a key on the keyboard.

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.



Recording time



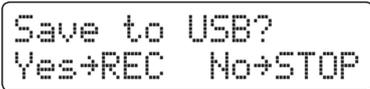
* Recording can also be started by pressing the PLAY/STOP button, allowing a rest period or empty bar to be inserted at the beginning of the song.

4. Stopping the audio recorder, saving to USB

Press the PLAY/STOP button.

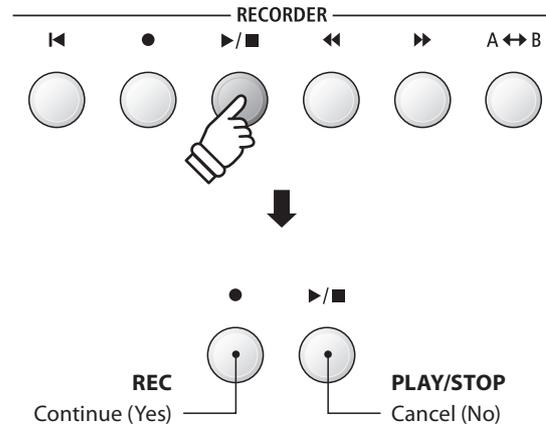
The LED indicators for the PLAY/STOP and REC buttons will turn off, and recording will stop.

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



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

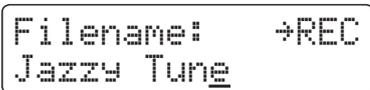
* If cancelled, the audio recorder will return to the previous screen.



5. Naming the recorded audio file, confirming save

After pressing the REC button to continue the save:

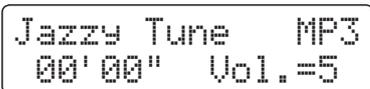
The filename entry screen will be shown in the LCD display.



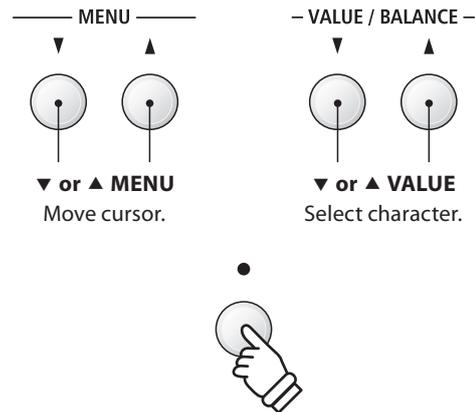
Press the ▼ or ▲ VALUE buttons to cycle through the characters, and the ▼ or ▲ MENU buttons to move the cursor.

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.



To play back the recorded audio file, please refer to the 'Playing an Audio File' instructions on page 54.

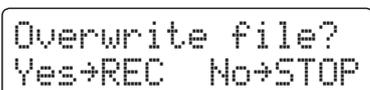


- * MP3 Song 01' or 'WAV Song 01' will be used as the default name for the recorded audio files, with the number increasing automatically.
- * Save files are limited to a maximum name length of 11 characters.
- * The saved audio file will be stored in the root folder of the USB memory device. It is not 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

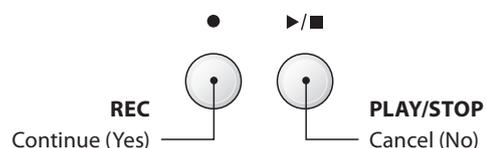
If the specified filename already exists:

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



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).



2 Playing an Audio file

The ES7 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 119 for more information.

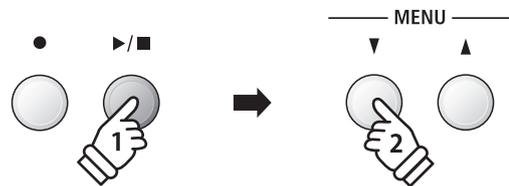


1. Entering USB playback mode

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.

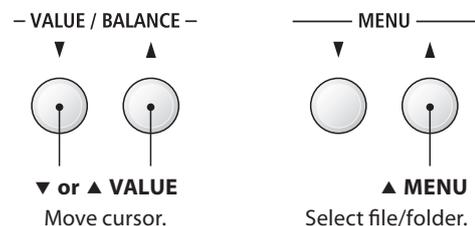
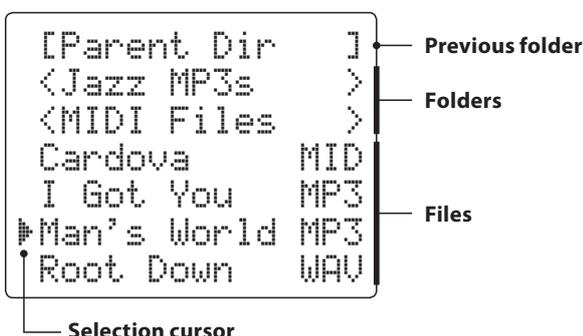


File selection screen

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.



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

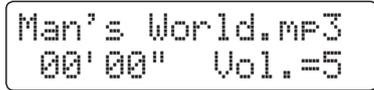
* When the USB Player function is selected, only MP3, WAV, and MID files will be shown.

* 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.

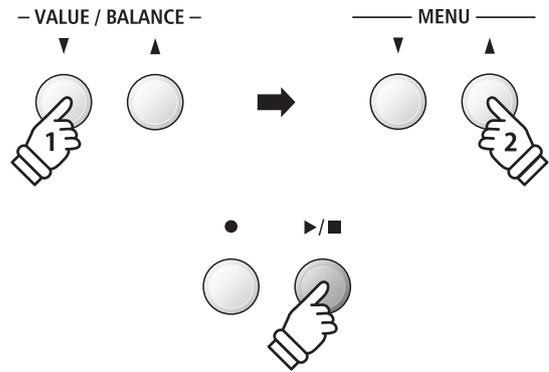
The audio play screen will be shown in the LCD display.



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:

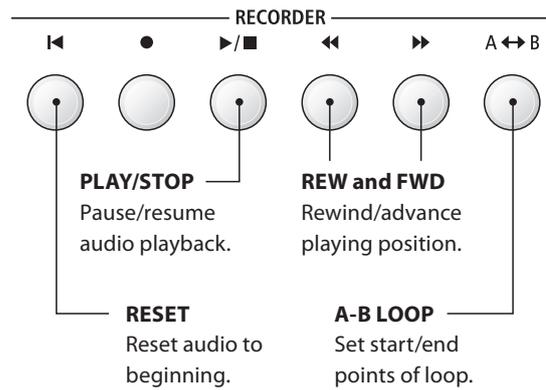
Press the REW or FWD buttons to rewind or advance the playing position of the audio file.

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.

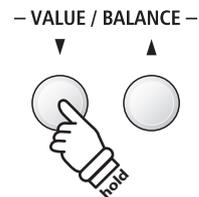


■ Adjusting the audio file playback volume

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

* The playback volume can be adjusted within the range of 1 - 128.

* There may be a noticeable difference in volume between audio file playback and the ES7 keyboard sound. When playing back MP3/WAV audio data, please adjust the volume of the audio file as desired.



3. Exiting USB playback mode

Press the EXIT button to exit the USB Player.

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



3 Playing a MIDI file

The ES7 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 119 for more information.



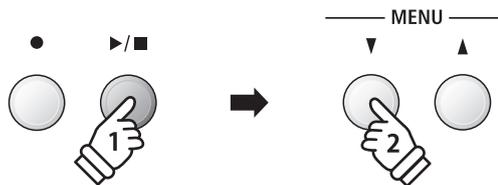
1. Entering USB playback mode

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.

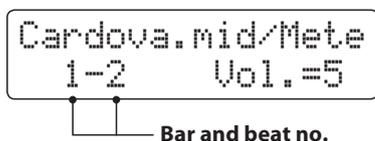
* Please refer to page 54 for information about the file selection screen.



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.

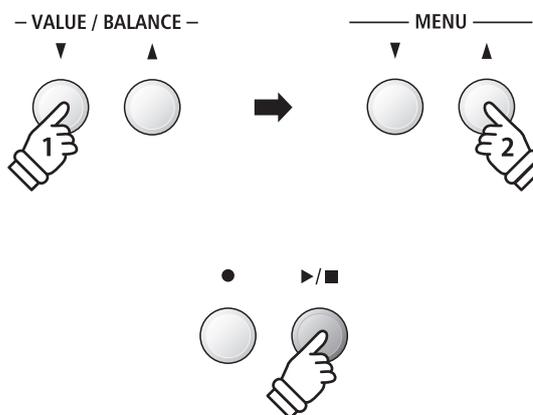
The MIDI player screen will be shown in the LCD display.



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.



* The ES7 digital piano does not contain the full General MIDI/GM2 sound bank selection. Consequently, some SMF song files may not be reproduced entirely accurately when played through the instrument.

■ Controlling MIDI file playback

While the MIDI file is playing:

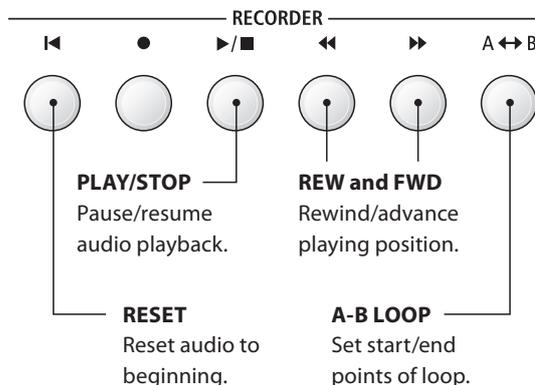
Press the REW or FWD buttons to rewind or advance the playing position of the MIDI file.

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.

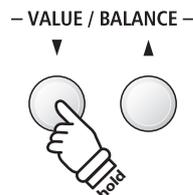


■ Adjusting the MIDI file playback volume

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

* The playback volume can be adjusted within the range of 1 - 128.

* There may be a noticeable difference in volume between MIDI file playback and the ES7 keyboard sound. When playing back MID data, please adjust the volume as desired.

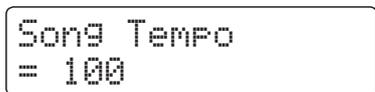


■ Adjusting playback settings (playback menu)

The playback menu features settings to adjust the MIDI file's tempo, and pitch (transpose), and select the 'Minus One' part.

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.

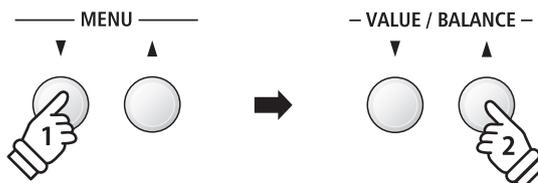


* The song tempo setting can be adjusted within the range of 10 - 400.

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

* The minus one part setting can be set to channels 1-16 or set to Off.

Press the EXIT button to return to the song player screen.



3. Exiting USB playback mode

Press the EXIT button to exit the USB Player.

The instrument will return to normal playing mode.



4 Recording an Audio file with the Rhythm Section

The ES7 digital piano also allows MP3 or WAV audio files to be recorded while using the Rhythm Section. This feature can be used to produce high quality digital audio recordings with full accompaniment backing, which can then be shared with friends and family.

1. Entering the Rhythm Section

Press the RHYTHM SECTION button.

The LED indicator for the RHYTHM SECTION button will turn on to indicate that the Rhythm Section is in use.

Make any changes to the Rhythm Section settings (style, volume, tempo, parts, ACC mode etc.)

* Please refer to page 40 for more information.

RHYTHM SECTION

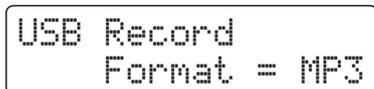


2. Entering USB recorder mode, selecting the audio file format

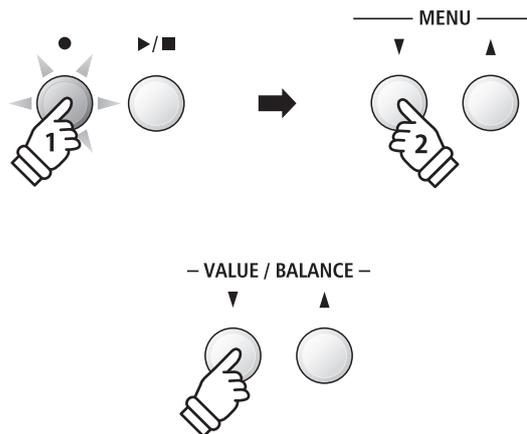
Connect a USB memory device to the USB port.

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

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



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

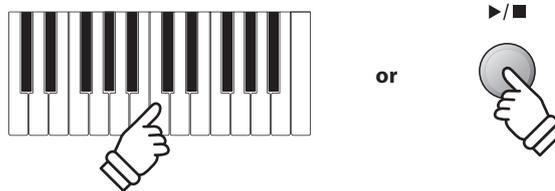


3. Starting the audio recorder

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, and recording will start with the Rhythm Section playing.

Press the PLAY/STOP button to stop the recording.



4. Naming and saving the recorded audio file

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

5 Converting a Song to an Audio file

The ES7 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.

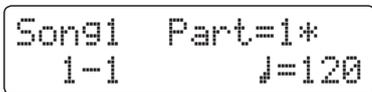
1. Selecting a song

After recording a song to internal memory:

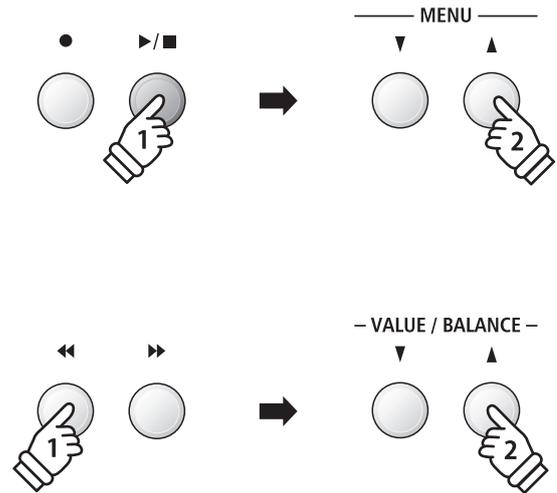
Connect a USB memory device to the USB port.

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

The LED indicator for the PLAY/STOP button will turn on and the Internal Song Player screen will be shown in the LCD display.



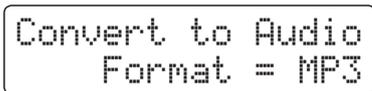
Press the REW or FWD buttons to select the desired internal song memory, and the ▼ or ▲ VALUE buttons to select the desired part(s).



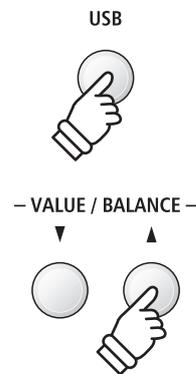
2. Selecting the Convert to Audio function

Press the USB button.

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



Press the ▼ or ▲ VALUE buttons to select the desired audio file format for the converted song.

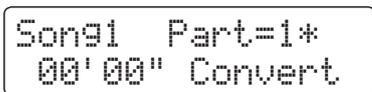


3. Starting the conversion

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.



- * 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.

6 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.

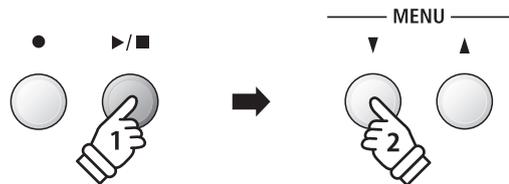
1. Entering USB playback mode

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

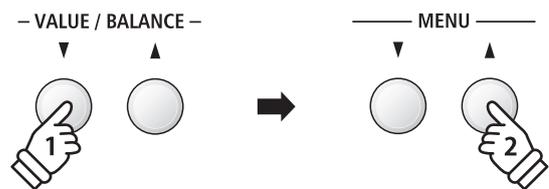
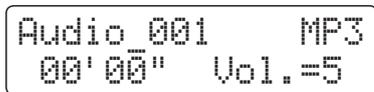
* Please refer to page 54 for information about the file selection screen.



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.

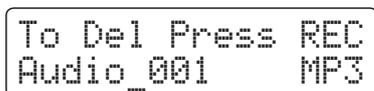
The USB player screen will be shown in the LCD display.



3. Deleting the selected audio/MIDI file

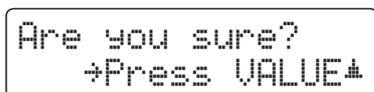
Press the REC button and PLAY/STOP buttons simultaneously.

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.



Press the REC button.

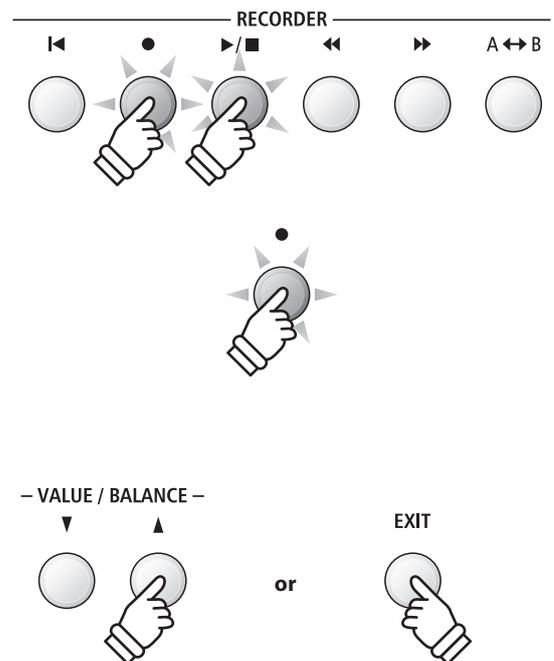
A confirmation message will be shown in the LCD display, prompting to confirm or cancel the erase operation.



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

Press the EXIT button to to cancel the erase operation.

* If cancelled, press the PLAY/STOP button to return to the Play Internal screen, or REC button to return to the Record Internal screen.



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.

USB

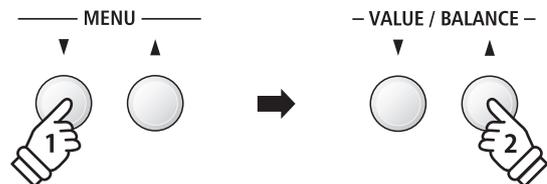


```
1 Load Int. Song
  →Press VALUE▲
```

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 EXIT or 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.

USB



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 54 for information about the file selection screen.

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



```
▶Kendo Strut K50
  FnkyMiracle K50
```

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 K50
  Simple Song K50
```

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 EXIT 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 EXIT 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.

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'.

Registration file types

Registration type	Description	File extension
Single	A file containing a single registration memory.	KM6
All	A file containing all 28 registration memories.	KM3

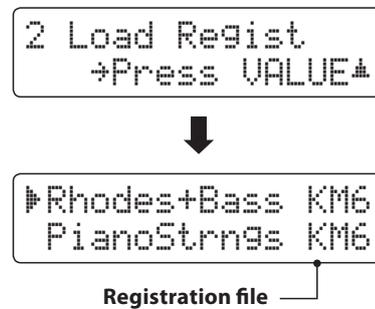
1. Selecting the Load Regist function

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.

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

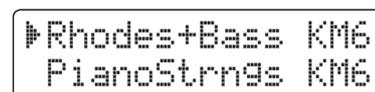
* Please refer to page 54 for information about the file selection screen.



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.

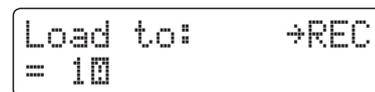
The memory selection screen will be shown in the LCD display.



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.



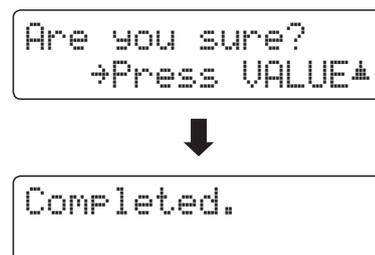
4. Loading the selected registration

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 EXIT button to cancel the load operation.

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



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
IntSong_1
```

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_
```

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 EXIT button to cancel the save operation.

```
Are you sure?
  +Press VALUE▲
```



```
Completed.
```

5. Exiting the Save SMF Song function

Press the EXIT 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 ES7'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
= Song4*
```



```
Filename:    +REC
IntSong_1
```

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
Soulful Stru_
```

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 EXIT button to to cancel the save operation.

```
Are you sure?
  +Press VALUE▲
```



```
Completed.
```

5. Exiting the Save Song function

Press the EXIT 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.

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 28 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
= 20
```



```
Filename: →REC
IntSong_1
```

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. Wurlie
```

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 EXIT button to cancel the save operation.

```
Are you sure?
  →Press VALUE▲
```



```
Completed.
```

6 Rename File

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

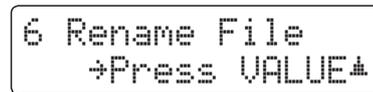
1. Selecting the Rename File function

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

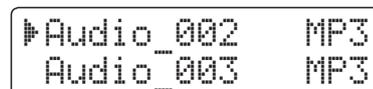
Press the ▼ or ▲ MENU buttons then the VALUE ▲ button to select the Rename File function.

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 54 for information about the file selection screen.



6 Rename File
+Press VALUE▲

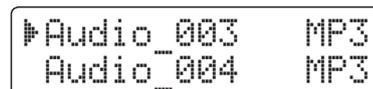


▶Audio_002 MP3
Audio_003 MP3

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.

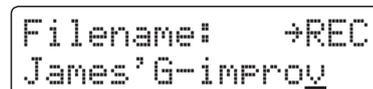


▶Audio_003 MP3
Audio_004 MP3

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.



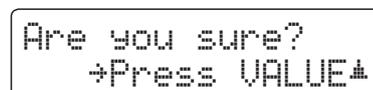
Filename: +REC
James'G-improv

4. Confirming the rename

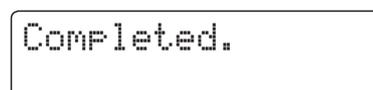
Press the REC button to rename the file.

A confirmation message will be shown in the LCD display.

Press the VALUE ▲ button to confirm the rename operation.
Press the EXIT button to to cancel the rename operation.



Are you sure?
+Press VALUE▲



Completed.

5. Exiting the Rename File function

Press the EXIT 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 54 for information about the file selection screen.

```
7 Delete File
  →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

Press the REC button to delete the file.

A confirmation message will be shown in the LCD display.

Press the VALUE ▲ button to confirm the delete operation. Press the EXIT button to to cancel the delete operation.

```
Are you sure?
  →Press VALUE▲
```



```
Completed.
```

4. Exiting the Delete File function

Press the EXIT 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 USB
  →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 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 EXIT button to cancel the format operation.

```
Are you sure?
  →Press VALUE▲
```



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



```
Completed.
```

4. Exiting the Format USB function

Press the EXIT 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.

Settings Menu

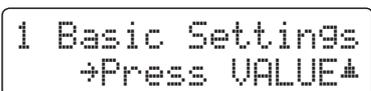
The Settings menus contain a variety of options to adjust the ES7's operation and sound. Settings are grouped by category, providing convenient access to relevant controls. Once adjusted, settings can be stored to one of the instrument's 28 registration memories, or selected as the default power-on settings with the User Memory function.

■ Entering the Settings menu

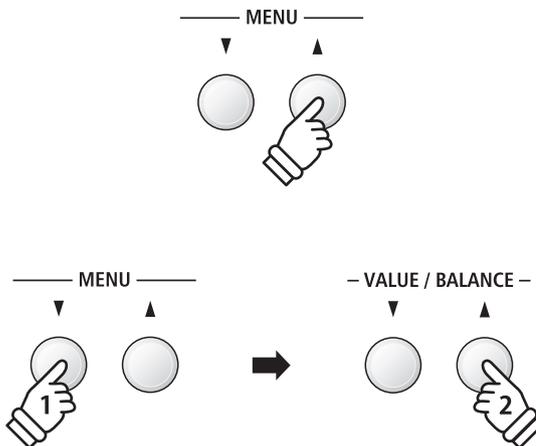
While the normal playing mode screen is shown in the LCD display:

Press the ▼ or ▲ MENU buttons.

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



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 menu

Press the EXIT button to return to the main settings menu.

Press the EXIT button again to return to normal playing mode.



■ Overview of Settings menus

1. Basic Settings

Equaliser, Speaker Volume, Phones Volume, Line Out Volume, Audio Rec Gain, Tuning, Damper Hold, F-20 Mode, Four Hands, User Memory, Factory Reset

2. Virtual Technician

Touch Curve, Voicing, Damper Resonance, Damper Noise, String Resonance, Key-off Effect, Fallback Noise, Hammer Delay, Temperament, Stretch Tuning, Key of Temperament, User Temp.

3. Key Settings

Lower Octave Shift, Lower Pedal On/Off, Split Balance, Layer Octave Shift, Layer Dynamics, Dual Balance

4. Rhythm Settings

Rhythm Volume, Auto Fill-in, One Finger Ad-lib, ACC Mode, Preset Chord

5. MIDI Settings

MIDI Channel, Send Program Change No., Local Control, Transmit Program Change No., Multi-timbral Mode, Channel Mute

6. Power Settings

Auto Power Off

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	Equaliser	Change the EQ settings of the instrument's sound.	Off
1-2	Wall EQ	Optimise the instrument's speaker system based on instrument placement.	Off
1-3	Speaker Volume	Change the maximum volume level of the speaker output.	Normal
1-4	Phones Volume	Change the maximum volume level of the headphones output.	Normal
1-5	Line Out Volume	Adjust the output volume of the Line Out connectors.	10
1-6	Audio Rec Gain	Increase or decrease the recording level of the MP3/WAV audio recorder.	0 dB
1-7	Tuning	Increase or decrease the pitch of the instrument in 0.5 Hz steps.	440.0 Hz
1-8	Damper Hold	Change the effect of pressing the sustain pedal on organ, string, etc. sounds.	Off
1-9	F-20 Mode	Change the function of the optional F-20 double pedal.	Damper/Soft
1-10	Four Hands	Enable the 'Four Hands Mode' function.	Off
1-11	User Memory	Store current panel settings as the default (power-on) configuration.	-
1-12	Factory Reset	Restore all panel settings to the original factory configuration.	-

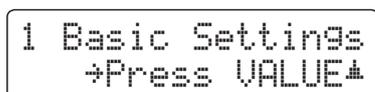
* Default settings will be shown in the first LCD display illustration (i.e. Step 1) for each setting explanation below.

Entering the Basic Settings menu

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

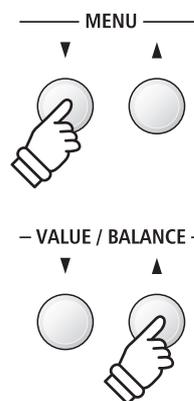
Press the ▼ or ▲ MENU buttons.

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



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

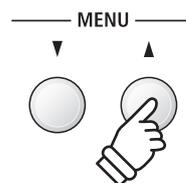
The first page of the Basic Settings menu will be shown in the LCD display



Selecting the desired setting

After entering the Basic Settings menu:

Press the ▼ or ▲ MENU buttons to cycle through the different settings pages.



1-1 Equaliser (EQ)

The Equaliser function allows the overall sound character of the ES7 digital piano to be adjusted to ensure the best sound quality within the area that the instrument is located. There are five different preset EQ types available, with an additional 'User' setting allowing finer control over the different frequency bands.

■ Equaliser types

Equaliser type	Description
Off (default)	The equaliser is turned off, and the sound character is unchanged.
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 Equaliser setting

After entering the Basic Settings menu (page 71):

The Equaliser setting will be selected automatically.

```
1-1 Equaliser
= Off
```

2. Changing the Equaliser type

Press the ▼ or ▲ VALUE buttons to cycle through the different equaliser types.

* Any changes made to the equaliser type or User EQ settings will remain until the power is turned off.

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

```
1-1 Equaliser
= Off
```



```
1-1 Equaliser
= Bass Boost
```

3. Exiting the Equaliser setting

Press the EXIT button to exit the Equaliser setting and return to the main settings menu.

■ Jump to Equaliser setting shortcut

It is also possible to access the Equaliser setting directly when a *non-piano* sound is selected in Single Mode (i.e. not Dual Mode, Split Mode, Four Hands Mode, or Rhythm Section Mode):

Press and hold the MENU ▼ or MENU ▲ buttons.

The Equaliser setting will be shown in the LCD display.

Press the ▼ or ▲ VALUE buttons to change the Equaliser setting.

To exit the Equaliser setting and return to the previous screen, press the EXIT button twice.

```
Classic E.P.
```



```
1-1 Equaliser
= Off
```

■ User EQ setting

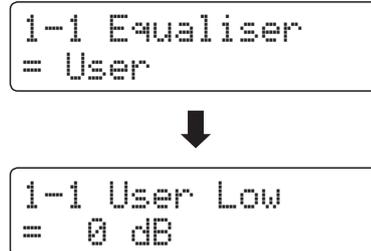
User EQ bands	Description
Low	Adjusts the low range frequency band (20 - 100 Hz).
Mid-low	Adjusts the mid-low range frequency band (355 - 1000 Hz).
Mid-high	Adjusts the mid-high range frequency band (1120 - 3150 Hz).
High	Adjusts the high range frequency band (5000 - 20000 Hz).

1. Selecting the User EQ setting

While the Equaliser type screen is shown in the LCD display:

Press the ▼ or ▲ VALUE buttons to cycle through the different equaliser types. When the 'User' type is selected, press the MENU ▲ button.

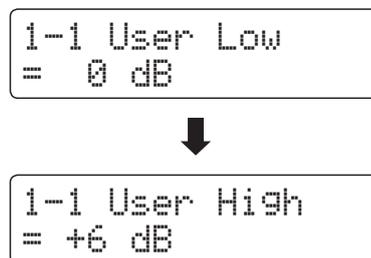
The User EQ setting screen will be shown in the LCD display.



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



3. Exiting the User EQ setting

Press the EXIT button to exit the User EQ settings screen and return to the main Equaliser settings screen.

1-2 Wall EQ

The Wall EQ setting optimises the ES7 digital piano's speaker system depending on whether the instrument is placed beside a wall, or in an area away from a wall.

* This setting does not affect the headphones or Line Out output.

■ Wall EQ settings

Wall EQ	Description
Off (default)	Optimise the speaker system for placing the ES7 digital piano in an area away from a wall.
On	Optimise the speaker for placing the ES7 digital piano beside a wall.

1. Selecting the Wall EQ setting

After entering the Basic Settings menu (page 71):

Press the ▼ or ▲ MENU buttons to select the Wall EQ setting.

```
1-2 Wall EQ
= Off
```

2. Changing the Wall EQ setting

Press the ▼ or ▲ VALUE buttons to turn the Wall EQ setting on or off.

* Any changes made to the Wall EQ setting will remain until the power is turned off.

* Preferred Wall EQ settings will not be stored to a Registration memory, but can be stored to the instrument's User memory for convenient recall. Please refer to page 82 for more information.

```
1-2 Wall EQ
= Off
```



```
1-2 Wall EQ
= On
```

3. Exiting the Wall EQ setting

Press the EXIT button to exit the Wall EQ setting and return to the main settings menu.

1-3 Speaker Volume

The Speaker Volume setting allows the maximum volume level of the ES7 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 71):

Press the ▼ or ▲ MENU buttons to select the Speaker Volume setting.

```
1-3 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 User memory for convenient recall. Please refer to page 82 for more information.

```
1-3 Speaker Vol.  
= Normal
```



```
1-3 Speaker Vol.  
= Low
```

3. Exiting the Speaker Volume setting

Press the EXIT button to exit the Speaker Volume setting and return to the main settings menu.

1-4 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 71):

Press the ▼ or ▲ MENU buttons to select the Phones Volume setting.

```
1-4 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 User memory for convenient recall. Please refer to page 82 for more information.

```
1-4 Phones Vol.  
= Normal
```



```
1-4 Phones Vol.  
= High
```

3. Exiting the Phones Volume setting

Press the EXIT button to exit the Phones Volume setting and return to the main settings menu.

1-5 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 ES7 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 71):

Press the ▼ or ▲ MENU buttons to select the Line Out Volume setting.



1-5 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 User memory for convenient recall. Please refer to page 82 for more information.



1-5 LineOut Vol.
= 10



1-5 LineOut Vol.
= 3

3. Exiting the Line Out Volume setting

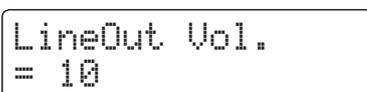
Press the EXIT button to exit the Line Out Volume setting and return to the main settings menu.

■ Jump to Line Out Volume setting shortcut

It is also possible to access the Line Out Volume setting directly using the following shortcut:

Press and hold the EXIT button.

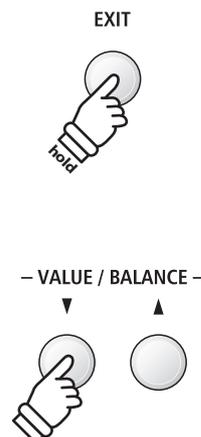
The Line Out Volume setting will briefly be shown in the LCD display.



LineOut Vol.
= 10

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 the EXIT button or wait 4 seconds.



1-6 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 71):

Press the ▼ or ▲ MENU buttons to select the Audio Recorder Gain setting.

```
1-6 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 User memory for convenient recall. Please refer to page 82 for more information.

```
1-6 AudioRecGain
= 0 dB
```



```
1-6 AudioRecGain
= +10 dB
```

3. Exiting the Audio Recorder Gain setting

Press the EXIT button to exit the Audio Recorder Gain setting and return to the main settings menu.

1-7 Tuning

The Tuning setting allows the overall pitch of the ES7 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 71):

Press the ▼ or ▲ MENU buttons to select the Tuning setting.

```
1-7 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.

```
1-7 Tuning
= 440.0 Hz
```



```
1-7 Tuning
= 437.5 Hz
```

3. Exiting the Tuning setting

Press the EXIT button to exit the Tuning setting and return to the main settings menu.

1-8 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 71):

Press the ▼ or ▲ MENU buttons to select the Damper Hold setting.

```
1-8 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.

```
1-8 Damper Hold
= Off
```



```
1-8 Damper Hold
= On
```

3. Exiting the Damper Hold setting

Press the EXIT button to exit the Damper Hold setting and return to the main settings menu.

1-9 F-20 Mode

The F-20 Mode setting is used to change the default pedalling behaviour of the optional F-20 double pedal. When the included F-10H and optional F-20 pedals are connected simultaneously, this setting allows the combined pedals to be used as a triple pedal system.

■ F-20 Mode

F-20 Mode	Description
Damper/Soft (default)	The right pedal will function as a Damper pedal, the left pedal will function as a Soft pedal.
Sostenuto/Soft	The right pedal will function as a Sostenuto pedal, the left pedal will function as a Soft pedal. * This setting is recommended when connecting the included F-10H and optional F-20 pedals simultaneously.
Damper/Soste.	The right pedal will function as a Damper pedal, the left pedal will function as a Sostenuto pedal. * When this setting is selected, pressing the left pedal will no longer change the speed of the rotary speaker effect.

1-10 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 ES7 digital piano is turned on.

* Please refer to page 22 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 71):

Press the ▼ or ▲ MENU buttons to select the Four Hands setting.

```
1-10 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 indicators for the SPLIT and SOUND buttons 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.

```
1-10 Four Hands
= Off
```



```
1-10 Four Hands
= On
```

3. Exiting the Four Hands setting

Press the EXIT button to exit the Four Hands setting and return to the main settings menu.

1-11 User Memory

The User Memory function allows preferred panel settings to be stored in the instrument's memory, and automatically recalled as the default settings every time the ES7 digital piano is turned on.

■ Settings stored in User Memories

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

* Auto Power Off setting is stored to User Memory automatically.

1. Selecting the User Memory function

After entering the Basic Settings menu (page 71):

Press the ▼ or ▲ MENU buttons to select the User Memory function.

```
1-11 User Memory
Save? →Press REC
```

2. Storing current settings to User Memory

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 EXIT button to cancel the store operation.

* After storing the User Memory settings, the instrument will exit the settings menu and return to normal playing mode.

```
1-11 User Memory
Save? →Press REC
```



```
Are you sure?
→Press VALUE▲
```



```
Completed.
```

3. Exiting the User Memory function

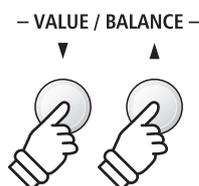
Press the EXIT button to exit the User Memory function and return to the main settings menu.

■ Recalling individual User Memory settings

After selecting a setting:

Press the ▼ and ▲ VALUE buttons simultaneously.

The selected setting will be restored to the default (power on) value.



1-12 Factory Reset

The Factory Reset function clears any settings stored using the User Memory function above, restoring the ES7 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 71):

Press the ▼ or ▲ MENU buttons to select the Factory Reset function.



1-12 FactoryReset
Save? →Press REC

2. Restoring factory settings

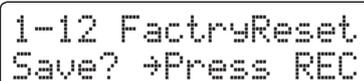
Press the REC button.

A confirmation message will be shown in the LCD display.

Press the VALUE ▲ button to confirm the reset operation.

Press the EXIT button to cancel the reset operation.

* After performing a factory reset, the instrument will exit the settings menu and return to normal playing mode.



1-12 FactoryReset
Save? →Press REC



Are you sure?
→Press VALUE▲



Completed.

3. Exiting the Factory Reset function

Press the EXIT button to exit the Factory Reset function and return to the main settings menu.

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 ES7 digital piano simulate these refinements digitally, allowing performers to shape various aspects of the instrument's character to suit their personal preferences.

Virtual Technician

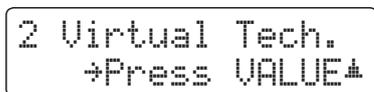
Page no.	Setting	Description	Default setting
2-1	Touch Curve	Adjust the touch sensitivity of the keyboard.	Normal
2-2	Voicing	Adjust the tonal character of the instrument.	Normal
2-3	Damper Resonance	Adjust the resonance that is heard when pressing the damper pedal.	5
2-4	Damper Noise	Adjust the volume of the sound that is heard when pressing the damper pedal.	5
2-5	String Resonance	Adjust the resonance that is heard when notes are held.	5
2-6	Key-off Effect	Adjust the volume of the sound that is heard when keys are released.	5
2-7	Fall-back Noise	Adjust the volume of the sound that is heard when the key action falls back.	5
2-8	Hammer Delay	Adjust the delay of the hammer striking strings when playing pianissimo.	Off
2-9	Temperament	Adjust the tuning system to suit Renaissance and Baroque periods etc.	Equal Temp.
	Stretch Tuning	Adjust the level of stretch tuning for equal temperaments.	Normal
	Temperament Key	Adjust the key of the selected tuning system.	C

* 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

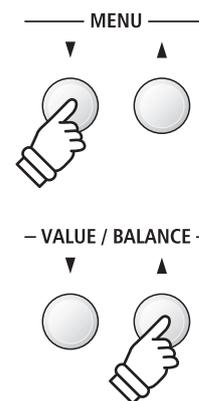
While the normal playing mode screen is shown in the LCD display:

Press the ▼ or ▲ MENU buttons to select the Virtual Technician menu.



Press the VALUE ▲ button to enter the Virtual Technician menu.

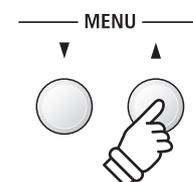
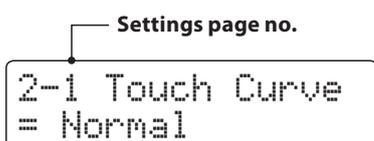
The first page of the Virtual Technician menu will be shown in the LCD display



Selecting the desired setting

After entering the Virtual Technician menu:

Press the ▼ or ▲ MENU buttons to cycle through the different settings pages.



2-1 Touch Curve

As with an acoustic piano, the ES7 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’.

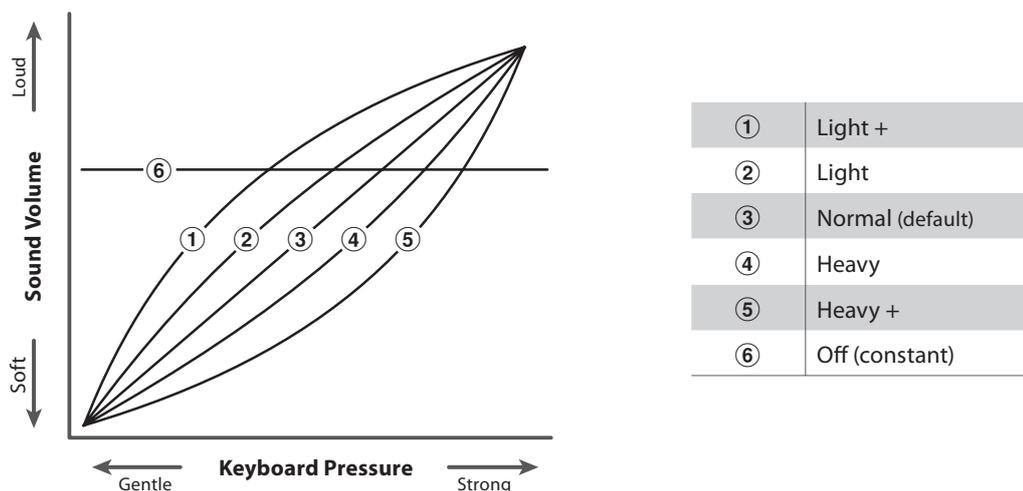
The Touch Curve setting allows the touch sensitivity of the keyboard to be conveniently adjusted. There are six different preset touch curve settings available, with two additional ‘User’ settings allowing performers to customise the instrument’s responsiveness to suit their individual playing style.

■ 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.
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.



■ Jump to Touch Curve setting shortcut

It is also possible to access the Touch Curve setting directly while a piano sound is selected in Single Mode (i.e. not Dual Mode, Split Mode, Four Hands Mode, or Rhythm Section Mode):

Press and hold the MENU ▼ or MENU ▲ buttons.
The Touch Curve setting will be shown in the LCD display.

Press the ▼ or ▲ VALUE buttons to change the Touch Curve setting.
To exit the Touch Curve setting and return to the previous screen, press the EXIT button twice.

2-1 Touch Curve (cont.)

1. Selecting the Touch Curve setting

After entering the Virtual Technician menu (page 84):

The Touch setting will be selected automatically.

```
2-1 Touch Curve
= Normal
```

2. Changing the Touch Curve type

Press the ▼ or ▲ VALUE buttons to cycle through the different touch curve types.

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

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

```
2-1 Touch Curve
= Normal
```



```
2-1 Touch Curve
= Heavy+
```

■ Creating a User Touch Curve

Press the ▼ or ▲ VALUE buttons to select the User 1 or User 2 touch curve, then press the REC button.

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

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.

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

```
2-1 Touch Curve
= User1→PressREC
```



```
Start playing
Soft → Loud
```



```
Press PLAY/STOP
when finished.
```

Press the PLAY/STOP button.

A confirmation message will be shown in the LCD display.

Press the REC button to confirm the store operation.

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

* The user touch curve will be stored to the 'User1' or 'User2' touch types and selected automatically.

```
Touch analysis
complete.
```



```
Save?
Yes→REC No→STOP
```

3. Exiting the Touch Curve setting

Press the EXIT button to exit the Touch Curve setting and return to the main settings menu.

2-2 Voicing

The Voicing setting allows the tonal character of the ES7 digital piano to be set to one of six different types.

■ 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 softer 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 84):

Press the ▼ or ▲ MENU buttons to select the Voicing setting.

```
2-2 Voicing
= Normal
```

2. Changing the Voicing type

Press the ▼ or ▲ VALUE buttons to cycle through the different voicing types.

* Any changes made to the Voicing settings 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.

```
2-2 Voicing
= Normal
```



```
2-2 Voicing
= Dynamic
```

3. Exiting the Voicing setting

Press the EXIT button to exit the Voicing setting and return to the main settings menu.

2-3 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 ES7 digital piano recreates this phenomenon, with the Damper Resonance setting allowing the volume of this resonance sound to be adjusted.

1. Selecting the Damper Resonance setting

After entering the Virtual Technician menu (page 84):

Press the ▼ or ▲ MENU buttons to select the Damper Resonance setting.

```
2-3 DanFer 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.

* 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.

```
2-3 DanFer Reso.
= 5
```



```
2-3 DanFer Reso.
= 2
```

3. Exiting the Damper Resonance setting

Press the EXIT button to exit the Damper Resonance setting and return to the main settings menu.

2-4 Damper Noise

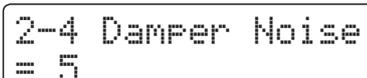
When the damper pedal of an acoustic piano is pressed and released, it is often possible to hear the sound of the damper head touching and releasing the strings.

The ES7 digital piano reproduces this sound, with the Damper Noise setting allowing the volume of this sound to be adjusted.

1. Selecting the Damper Noise setting

After entering the Virtual Technician menu (page 84):

Press the ▼ or ▲ MENU buttons to select the Damper Noise setting.

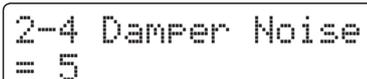


```
2-4 Damper Noise
= 5
```

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.
- * 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.



```
2-4 Damper Noise
= 5
```



```
2-4 Damper Noise
= 2
```

3. Exiting the Damper Noise setting

Press the EXIT button to exit the Damper Noise setting and return to the main settings menu.

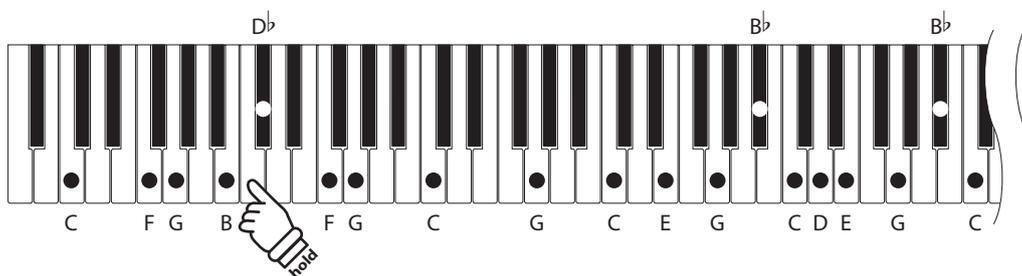
2-5 String Resonance

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 ES7 digital piano recreates this phenomenon, with the String Resonance setting allowing the volume of this resonance to be adjusted.

Demonstrating String Resonance

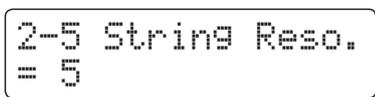
To experience the string resonance phenomenon, gently hold down the 'C' key as shown in the illustration below, then press any of the keys marked with a ● symbol. In addition to the sound of each note played, it should also be possible to hear the strings of the first 'C' key resonating 'sympathetically', thus demonstrating String Resonance.



1. Selecting the String Resonance setting

After entering the Virtual Technician menu (page 84):

Press the ▼ or ▲ MENU buttons to select the String Resonance setting.



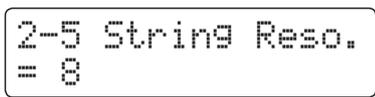
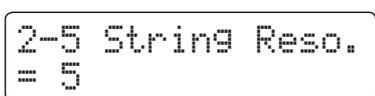
2. Adjusting the String Resonance volume

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.

* 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.



3. Exiting the String Resonance setting

Press the EXIT button to exit the String Resonance setting and return to the main settings menu.

2-6 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).

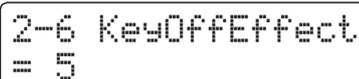
The ES7 digital piano reproduces both characteristics, with the Key-off Effect setting allowing the volume of the key-off sound to be adjusted, and the key-off release speed detection to be turned on or off.

* This setting also affects the 'Classic E.P.', '60's E.P.', and 'Classic E.P.2' electric piano sounds, however the key-off release speed will not effect the character of the sound.

1. Selecting the Key-off Effect setting

After entering the Virtual Technician menu (page 84):

Press the ▼ or ▲ MENU buttons to select the Key-off Effect setting.



2-6 KeyOffEffect
= 5

2. Adjusting the Key-off Effect volume

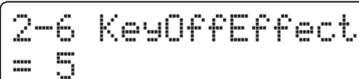
Press the ▼ or ▲ VALUE buttons to adjust the volume of the Key-off Effect setting.

* The Key-off Effect volume can be adjusted within the range of Off, 1 - 10.

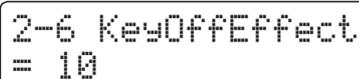
* When the Key-off Effect setting is set to Off, the key-off release speed detection will also be disabled, and the speed at which keys are lifted will not affect the character of the sound.

* 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.



2-6 KeyOffEffect
= 5



2-6 KeyOffEffect
= 10

3. Exiting the Key-off Effect setting

Press the EXIT button to exit the Key-off Effect setting and return to the main settings menu.

2-7 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 ES7 digital piano reproduces this sound, with the Fall-back Noise setting allowing the volume of this sound to be adjusted.

1. Selecting the Fall-back Noise setting

After entering the Virtual Technician menu (page 84):

Press the ▼ or ▲ MENU buttons to select the Fall-back Noise setting.

```
2-7 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.
- * 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.

```
2-7 Fallback Ns.  
= 5
```



```
2-7 Fallback Ns.  
= Off
```

3. Exiting the Fall-back Noise setting

Press the EXIT button to exit the Fall-back Noise setting and return to the main settings menu.

2-8 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 ES7 digital piano can recreate this delay, with the Hammer Delay setting allowing the delay length to be adjusted.

1. Selecting the Hammer Delay setting

After entering the Virtual Technician menu (page 84):

Press the ▼ or ▲ MENU buttons to select the Hammer Delay setting.

```
2-8 Hammer Delay
= Off
```

2. Adjusting the Hammer Delay value

Press the ▼ or ▲ VALUE buttons to adjust the value of the Hammer Delay setting.

- * The Hammer Delay value can be adjusted within the range of Off, 1 - 10.
- * 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.

```
2-8 Hammer Delay
= Off
```



```
2-8 Hammer Delay
= 5
```

3. Exiting the Hammer Delay setting

Press the EXIT button to exit the Hammer Delay setting and return to the main settings menu.

2-9 Temperament

The Temperament setting allows the tuning system used by the ES7 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 (piano) (Equal P.only)	This is the default temperament. When a piano sound is selected, the tuning will be stretched like an acoustic piano (equal temperament). * If any other type of sound is selected, the tuning will be set to equal temperament (flat).
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.
Equal Temperament (flat) (Equal Flat)	This is an 'unstretched' equal temperament that divides the scale into twelve equal semi-tones. It 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.
Equal Temperament (Equal Stretch)	This is the most popular piano temperament. The hearing ability of a human is uneven and is not as accurate with high frequency and low frequency as it is with the middle range. This temperament's tuning is stretched to compensate for this so the sound will be heard naturally to the ears. This 'stretched' equal temperament is a practical variation of the 'unstretched' equal temperament which was invented on a mathematical basis.
User Temperament (User)	A custom, user temperament, created by raising or lowering the pitch for each semi-tone.

1. Selecting the Temperament setting

After entering the Virtual Technician menu (page 84):

Press the ▼ or ▲ MENU buttons to select the Temperament setting.

```
2-9 Temperament
= Equal (P.only)
```

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.

```
2-9 Temperament
= Equal (P.only)
```



```
2-9 Temperament
= Meantone
```

Stretch Tuning

Stretch tuning is a piano-specific tuning method in which the tuning for the lower notes is slightly lower and the tuning for the higher notes is slightly higher than the settings made in the Equal temperament. The Stretch Tuning setting allows the degree of stretch tuning to be adjusted when Equal (piano) or Equal temperament are selected.

■ Changing the Stretch Tuning setting

After selecting the Equal (piano) or Equal temperament types:

Press the ▼ or ▲ MENU buttons to select the Stretch Tuning setting.

Press the ▼ or ▲ VALUE buttons to alternate between 'Normal' and 'Wide' stretch tuning settings.

2-9 Stretch Tune
= Normal



2-9 Stretch Tune
= Wide

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 (piano) or Equal temperament types:

Press the ▼ or ▲ MENU buttons to select Temperament Key setting.

Press the ▼ or ▲ VALUE buttons to select the desired temperament key.

2-9 Temper. Key
= C



2-9 Temper. Key
= F

* The temperament key can be set within the range of C to B.

User Temperament

The User Temperament setting allows custom temperaments to be created.

■ Creating a User Temperament

After selecting the User temperament type:

Press the MENU ▲ button.

The note name and cent value will be shown in the LCD display.

Press the ▼ or ▲ MENU buttons to select the note to adjust, then press the ▼ or ▲ VALUE buttons to decrease or increase the cent value.

2-9 Temperament
= User



2-9 UserTemp. C
= +20

* Each note can be adjusted within the range of -50 to +50 cents.

Key Settings

The Key Settings menu contains settings to adjust the instrument's operation when using the Dual or Split playing modes.

■ Key Settings

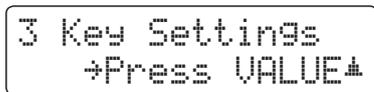
Page no.	Setting	Description	Default setting
3-1	Lower Octave	Raise the pitch of the lower section in octave steps when using Split mode.	0
3-2	Lower Pedal	Enable/disable sustain pedal for the lower section when using Split mode.	Off
3-3	Split Balance	Adjust the volume balance between the upper and lower sections.	5 : 5
3-4	Layer Octave	Raise the pitch of the layered sound in octave steps when using Dual mode.	0
3-5	Layer Dynamics	Adjust the dynamic sensitivity of the layered sound when using Dual mode.	10
3-6	Dual Balance	Adjust the volume balance between the main and layered sounds.	5 : 5

* 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

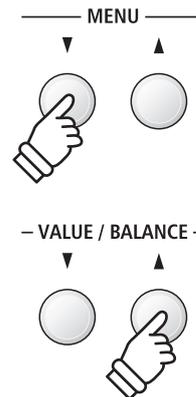
While the normal playing mode screen is shown in the LCD display:

Press the ▼ or ▲ MENU buttons to select the Key Settings menu.



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

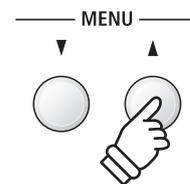
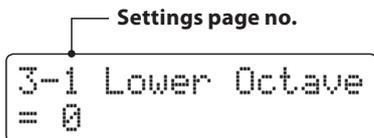
The first page of the Key Settings menu will be shown in the LCD display



■ Selecting the desired setting

After entering the Key Settings menu:

Press the ▼ or ▲ MENU buttons to cycle through the different settings pages.



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 96):

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 EXIT button to exit the Lower Octave Shift setting and return to the main settings menu.

■ Jump to Lower Octave Shift setting shortcut

It is also possible to access the Lower Octave Shift setting directly while Split Mode or Four Hands Mode are in use:

Press and hold the MENU ▼ or MENU ▲ buttons.

The Lower Octave Shift setting will be shown in the LCD display.

Press the ▼ or ▲ VALUE buttons to adjust the Lower Octave Shift setting.

To exit the Lower Octave Shift setting and return to the previous screen, press the EXIT button twice.

```
Concert Grand
/Wood Bass
```



```
3-1 Lower Octave
= 0
```

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 96):

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 EXIT button to exit the Lower Pedal setting and return to the main settings menu.

3-3 Split Balance

The Split Balance setting allows the volume balance between the upper and lower sections when using Split mode to be adjusted.

* The Split Balance setting can also be used adjusted directly while Split mode is in use. Please refer to page 21 for more information.

1. Selecting the Split Balance setting

After entering the Key Settings menu (page 96):

Press the ▼ or ▲ MENU buttons to select the Split Balance setting.

```
3-3 SplitBalance
= 5:5
```

2. Adjusting the Split Balance setting

Press the ▼ or ▲ VALUE buttons 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 ratio of the two sounds will always total 10 (e.g. 5-5, 3-7, 9-1, etc.).
- * Any changes made to the Split Balance setting will remain until the power is turned off.
- * Preferred Split Balance settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
3-3 SplitBalance
= 5:5
```



```
3-3 SplitBalance
= 1:9
```

3. Exiting the Split Balance setting

Press the EXIT button to exit the Split Balance setting and return to the main settings menu.

3-4 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 96):

Press the ▼ or ▲ MENU buttons to select the Layer Octave Shift setting.

```
3-4 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.

```
3-4 Layer Octave
= 0
```



```
3-4 Layer Octave
= +2
```

3. Exiting the Layer Octave Shift setting

Press the EXIT button to exit the Layer Octave Shift setting and return to the main settings menu.

■ Jump to Layer Octave Shift setting shortcut

It is also possible to access the Layer Octave Shift setting directly while Dual Mode is in use.

Press and hold the MENU ▼ or MENU ▲ buttons.

The Layer Octave Shift setting will be shown in the LCD display.

Press the ▼ or ▲ VALUE buttons to adjust the Layer Octave Shift setting.

To exit the Layer Octave Shift setting and return to the previous screen, press the EXIT button twice.

```
Concert Grand
Slow Strings
```



```
3-4 Layer Octave
= 0
```

3-5 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 96):

Press the ▼ or ▲ MENU buttons to select the Layer Dynamics setting.

```
3-5 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 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.

```
3-5 LayerDynamic
= 10
```



```
3-5 LayerDynamic
= 5
```

3. Exiting the Layer Dynamics setting

Press the EXIT button to exit the Layer Dynamics setting and return to the main settings menu.

3-6 Dual Balance

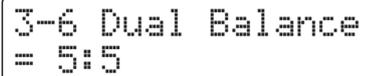
The Dual Balance setting allows the volume balance between the main and layered sounds when using Dual mode to be adjusted.

* The Dual Balance setting can also be used adjusted directly while Dual mode is in use. Please refer to page 19 for more information.

1. Selecting the Dual Balance setting

After entering the Key Settings menu (page 96):

Press the ▼ or ▲ MENU buttons to select the Dual Balance setting.



3-6 Dual Balance
= 5:5

2. Adjusting the Dual Balance setting

Press the ▼ or ▲ VALUE buttons to adjust the volume balance between the main and layered sections.

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

- * The ratio of the two sounds will always total 10 (e.g. 5-5, 3-7, 9-1, etc.).
- * Any changes made to the Dual Balance setting will remain until the power is turned off.
- * Preferred Dual Balance settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.



3-6 Dual Balance
= 5:5



3-6 Dual Balance
= 7:3

3. Exiting the Dual Balance setting

Press the EXIT button to exit the Dual Balance setting and return to the main settings menu.

Rhythm Settings

The Rhythm Settings menu contains settings to adjust the instrument's Rhythm Section feature.

■ Rhythm Settings

Page no.	Setting	Description	Default setting
4-1	Rhythm Vol.	Adjust the volume of the Rhythm Section	5
4-2	Auto Fill In	Specify how frequently an Auto Fill-in will be played.	8 bars
4-3	O.F. Ad-lib	Turn the 'One Finger Ad-lib' feature on or off.	Off
4-4	ACC Mode	Specify the chord input mode used for the Rhythm Section accompaniment.	Normal
	Preset Chord	Select the preset chord progression type.	Chord 1

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

■ Entering the Rhythm Settings menu

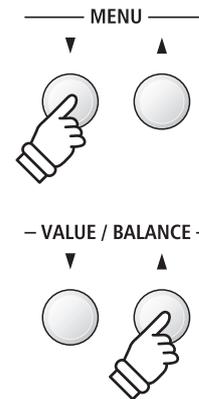
While the normal playing mode screen is shown in the LCD display:

Press the ▼ or ▲ MENU buttons to select the Rhythm Settings menu.

```
4 RhythmSettings
  →Press VALUE▲
```

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

The first page of the Rhythm Settings menu will be shown in the LCD display



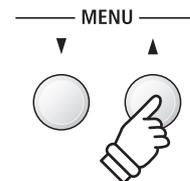
■ Selecting the desired setting

After entering the Rhythm Settings menu:

Press the ▼ or ▲ MENU buttons to cycle through the different settings pages.

Settings page no.

```
4-1 Rhythm Vol.
= 5
```



4-1 Rhythm Volume

The Rhythm Volume setting is used to adjust the volume level of the Rhythm Section accompaniment, relative to the main keyboard sound.

1. Selecting the Rhythm Volume setting

After entering the Rhythm Settings menu (page 103):

The Rhythm Volume setting will be selected automatically.

```
4-1 Rhythm Vol.  
= 5
```

2. Adjusting the Rhythm Volume value

Press the ▼ or ▲ VALUE buttons to decrease or increase the value of the Rhythm Volume setting.

- * The Rhythm Volume setting can be adjusted within the range of 1 - 10.
- * Any changes made to the Rhythm Volume setting will remain until the power is turned off.
- * Preferred Rhythm Volume settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
4-1 Rhythm Vol.  
= 5
```



```
4-1 Rhythm Vol.  
= 8
```

3. Exiting the Rhythm Volume setting

Press the EXIT button to exit the Rhythm Volume setting and return to the main settings menu.

■ Jump to Rhythm Volume setting shortcut

It is also possible to access the Rhythm Volume setting directly while the Rhythm Section is in use.

Press and hold the MENU ▼ or MENU ▲ buttons.

The Rhythm Volume setting will be shown in the LCD display.

Press the ▼ or ▲ VALUE buttons to adjust the Rhythm Volume setting.

To exit the Rhythm Volume setting and return to the previous screen, press the EXIT button twice.

```
FrnkShuffle1 All  
C J=108
```



```
4-1 Rhythm Vol.  
= 5
```

4-2 Auto Fill-in

The Auto Fill-in setting is used to specify how many bars of the Rhythm Section should be played before a fill-in passage is automatically added. This function can be turned off if the Auto Fill-in feature is not required.

■ Auto Fill-in settings

Auto Fill-in	Description
Off	The Rhythm Section will not play a fill-in passage automatically.
4 bars	The Rhythm Section will play an automatic fill-in passage after every 4 bars.
8 bars (default)	The Rhythm Section will play an automatic fill-in passage after every 8 bars.
12 bars	The Rhythm Section will play an automatic fill-in passage after every 12 bars.
16 bars	The Rhythm Section will play an automatic fill-in passage after every 16 bars.

1. Selecting the Auto Fill-in setting

After entering the Rhythm Settings menu (page 103):

Press the ▼ or ▲ MENU buttons to select the Auto Fill-in setting.

```
4-2 Auto Fill-in
= 8 bars
```

2. Adjusting the Auto Fill-in setting

Press the ▼ or ▲ VALUE buttons to decrease or increase the value of the Auto Fill-in setting.

* Any changes made to the Auto Fill-in setting will remain until the power is turned off.

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

```
4-2 Auto Fill-in
= 8 bars
```



```
4-2 Auto Fill-in
= 16 bars
```

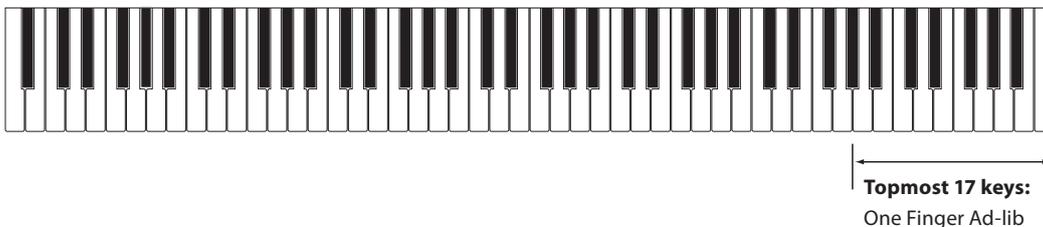
3. Exiting the Auto Fill-in setting

Press the EXIT button to exit the Auto Fill-in setting and return to the main settings menu.

4-3 One Finger Ad-lib

The One Finger Ad-lib setting is used to turn the Rhythm Section's One Finger Ad-lib function on or off.

When turned on, One Finger Ad-lib allows various musical phrases to be performed at any time by pressing one of the topmost 17 keys on the keyboard. Each phrase will play for one bar, and will match the key/chord currently used by the Rhythm Section accompaniment.



■ One Finger Ad-lib settings

One Finger Ad-lib	Description
Off (default)	A One Finger Ad-lib phrase will not be played when pressing one of the topmost 17 keys.
On	A One Finger Ad-lib phrase will be played when pressing one of the topmost 17 keys.

1. Selecting the One Finger Ad-lib setting

After entering the Rhythm Settings menu (page 103):

Press the ▼ or ▲ MENU buttons to select the One Finger Ad-lib setting.

```
4-3 O.F. Ad-lib
= Off
```

2. Changing the One Finger Ad-lib setting

Press the ▼ or ▲ VALUE buttons to turn the One Finger Ad-lib setting on or off.

* Any changes made to the One Finger Ad-lib setting will remain until the power is turned off.

* Preferred One Finger Ad-lib settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.

```
4-3 O.F. Ad-lib
= Off
```



```
4-3 O.F. Ad-lib
= On
```

3. Exiting the One Finger Ad-lib setting

Press the EXIT button to exit the One Finger Ad-lib setting and return to the main settings menu.

4-4 ACC Mode

The ACC Mode setting is used to select the Rhythm Section's chord input method.

* Please refer to page 44 for more information about the different Rhythm Section accompaniment modes.

■ ACC Mode settings

ACC Mode	Rhythm Section play/control mode
Normal (default)	Upper section plays melody, lower section controls Rhythm Section key.
Full Keyboard	Full keyboard plays melody, and controls Rhythm Section key.
Preset Chord	Full keyboard plays melody, Rhythm Section changes key automatically.

1. Selecting the ACC Mode setting

After entering the Rhythm Settings menu (page 103):

Press the ▼ or ▲ MENU buttons to select the ACC Mode setting.

```
4-4 ACC Mode
= Normal
```

2. Changing the ACC Mode setting

Press the ▼ or ▲ VALUE buttons to cycle through the different ACC Mode types.

* Any changes made to the ACC Mode setting will remain until the power is turned off.

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

```
4-4 ACC Mode
= Normal
```



```
4-4 ACC Mode
= Preset Chord
```

Preset Chord

The Preset Chord setting is used to specify which preset chord sequences the Rhythm Section will follow.

For a complete listing of the available Rhythm Section Preset Chord sequences, please refer to page 130 of this owner's manual.

* This setting is only available when the ACC Mode setting is set to 'Preset Chord'.

■ Changing the Preset Chord

After selecting the Preset Chord ACC Mode:

Press the ▼ or ▲ MENU buttons to select the Preset Chord settings page, then press the ▼ or ▲ VALUE buttons to cycle through the different Preset Chord sequences.

* The A-B LOOP button can also be used to quickly turn the Preset Chord function on/off without entering the ACC Mode settings page.

```
4-4 Preset Chord
= Chord1
```



```
4-4 Preset Chord
= Chord1
```

MIDI Settings

MIDI Overview

The term MIDI is an acronym for Musical Instrument Digital Interface, an international standard for connecting musical instruments, computers, and other devices to allow the exchange of performance data.

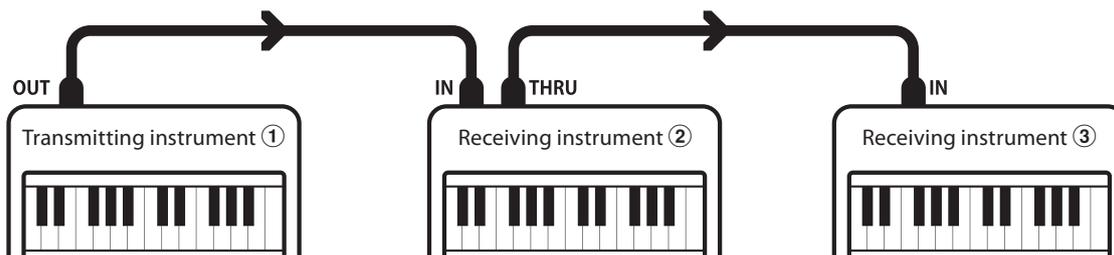
■ MIDI Terminals

MIDI terminal	Function
MIDI IN	Receiving note, program change, and other data.
MIDI OUT	Sending note, program change, and other data.

■ MIDI channels

MIDI uses channels to exchange data back and forth between MIDI devices. There are receive (MIDI IN) and transmit (MIDI OUT) channels. Most musical instruments or devices with MIDI functions are equipped with both MIDI IN and OUT jacks and are capable of transmitting and receiving data via MIDI. The receive channels are used to receive data **from** another MIDI device, and the transmit channels are used to transmit data **to** another MIDI device.

The illustration below shows three musical instruments, connected together using MIDI.



Transmitting instrument ① sends transmit channel and keyboard information to receiving instruments ②/③.

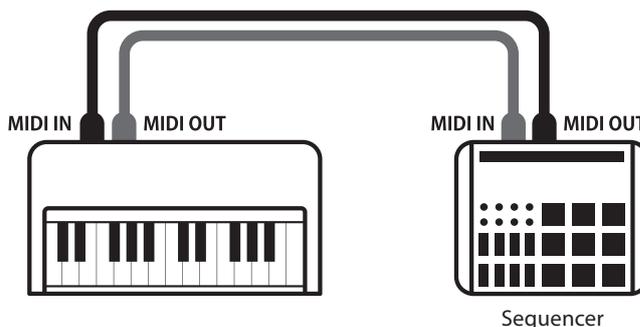
The information arrives at the receiving instruments ②/③.

Receiving instruments ②/③ will respond to MIDI data that is sent if their receive channel is the same as the transmit channel of the transmitting instrument ①. If the channels do not match, the receiving instruments ②/③ will not respond to any data that is sent.

For both receiving and transmitting, channels 1-16 can be used.

■ Recording/playing with a sequencer

When connected to a sequencer (or a computer running MIDI sequencing software), the ES7 digital piano can be used to record and playback multi-track songs, with separate sounds playing simultaneously on each channel.



■ MIDI Functions

The ES7 digital piano supports the following MIDI functions:

Transmit/receive note information

Transmit/receive note information to/from a MIDI-connected musical instrument or device.

Transmit/receive program change information

Transmit/receive program change data to/from a MIDI-connected musical instrument or device.

Transmit/receive channel settings

Specify transmit/receive channels within the range of 1 to 16.

Transmit/receive pedal data

Transmit/receive sustain, sostenuto, and soft pedal data to/from a MIDI-connected musical instrument or device.

Transmit/receive exclusive data

Transmit/receive front panel or menu function settings as exclusive data.

Receive volume data

Receive MIDI volume data sent from a MIDI-connected musical instrument or device.

Multi-timbral mode setting

Receive multiple channel MIDI data from a MIDI-connected musical instrument or device.

* Please refer to the 'MIDI Implementation Chart' on page 134 for further information regarding the MIDI capabilities of the ES7 digital piano.

■ MIDI Settings

Page no.	Setting	Description	Default setting
5-1	MIDI Channel	Specify the channel that is used to transmit/receive MIDI information.	1
5-2	Send PGM Change #	Send a MIDI program change number from 1 to 128.	1
5-3	Local Control	Specify whether internal sounds will be heard when the keyboard is pressed.	On
5-4	Trans. PGM Change	Specify whether program change data is sent when sounds are changed.	On
5-5	Multi-timbral Mode	Specify whether the instrument can receive Multi-timbral MIDI information.	Off
	Channel Mute	Specify which channels (1-16) are activated to receive MIDI information.	Play All

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

■ Entering the MIDI Settings menu

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

Press the ▼ or ▲ MENU buttons to select the MIDI Settings menu, then press the VALUE ▲ button to enter the menu.

The first page of the MIDI Settings menu will be shown in the LCD display.

5 MIDI Settings
→Press VALUE▲

■ Selecting the desired setting

After entering the MIDI Settings menu:

Press the ▼ or ▲ MENU buttons to cycle through the different settings pages.

Settings page no.
5-1 MIDI Channel
= 1

5-1 MIDI Channel

The MIDI Channel setting allows the transmit/receive channel to be specified. The selected channel will function as both the transmit and receive channel (separate transmit/receive channels cannot be specified).

1. Selecting the MIDI Channel setting

After entering the MIDI Settings menu (page 108):

The MIDI Channel setting will be selected automatically.



5-1 MIDI Channel
= 1

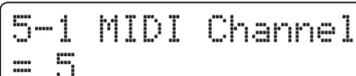
2. Changing the MIDI Channel value

Press the ▼ or ▲ VALUE buttons to decrease or increase the value of the MIDI Channel setting.

- * The MIDI Channel setting can be adjusted within the range of 1 - 16.
- * Any changes made to the MIDI Channel setting will remain until the power is turned off.
- * Preferred MIDI Channel settings can be stored to a Registration memory for convenient recall. Please refer to page 34 for more information.



5-1 MIDI Channel
= 1



5-1 MIDI Channel
= 5

3. Exiting the MIDI Channel setting

Press the EXIT button to exit the MIDI Channel setting and return to the main settings menu.

■ Omni mode

When the ES7 digital piano is turned on, the instrument is automatically set to 'omni mode on', allowing MIDI information to be received on all MIDI channels (1-16). When the MIDI Channel setting is used to specify a transmit/receive channel, the instrument will be set to 'omni mode off'.

■ Multi-timbral mode and Split/Dual mode

Using Split mode with Multi-timbral mode enabled

Notes played in the lower section of the keyboard will be transmitted on the channel that is 1 channel higher than the specified channel. For example, if the MIDI channel is set to 3, notes played in the lower section of the keyboard will be transmitted on channel 4.

Using Dual mode with Multi-timbral mode enabled

Notes played will be transmitted on two channels: the specified channel and the channel that is 1 channel higher.

For example, if the MIDI channel is set to 3, notes played on the keyboard will be transmitted on channels 3 and 4.

* If the specified MIDI channel is 16, the lower section / layered part will be transmitted on channel 1.

5-2 Send Program Change Number

The Send Program Change Number function is used to send a Program Change Number (1-128) to the connected MIDI device.

1. Selecting the Send Program Change Number function

After entering the MIDI Settings menu (page 108):

Press the ▼ or ▲ MENU buttons to select the Send Program Change Number function.

```
5-2 Send PGM#  
= 1      ↗VALUE↘
```

2. Specifying and transmitting a Program Change Number

Press the ▼ or ▲ VALUE buttons to decrease or increase the Program Change Number.

* The program change number can be set within the range of 1-128.

Press the ▼ and ▲ VALUE buttons simultaneously to send the specified Program Change Number.

```
5-2 Send PGM#  
= 1      ↗VALUE↘
```



```
5-2 Send PGM#  
= 15      Sent.
```

3. Exiting the Program Change Number function

Press the EXIT button to exit the Program Change Number function and return to the main settings menu.

5-3 Local Control

The Local Control setting determines whether the instrument will play an internal sound when the keys are pressed. This setting is useful when using the ES7 digital piano to control an external MIDI device.

Local Control settings

Local Control	Description
Off	The instrument will transmit information to an external MIDI device only.
On (default)	The instrument will play an internal sound and transmit information to an external MIDI device.

1. Selecting the Local Control setting

After entering the MIDI Settings menu (page 108):

Press the ▼ or ▲ MENU buttons to select the Local Control setting.

```
5-3 LocalControl
= On
```

2. Changing the Local Control setting

Press the ▼ or ▲ VALUE buttons to turn the Local Control setting on or off.

* Any changes made to the Local Control setting will remain until the power is turned off.

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

```
5-3 LocalControl
= On
```



```
5-3 LocalControl
= Off
```

3. Exiting the Local Control setting

Press the EXIT button to exit the Local Control setting and return to the main settings menu.

5-4 Transmit Program Change Numbers

The Transmit Program Change Numbers setting determines whether the ES7 digital piano will transmit program change information via MIDI when the instrument's panel buttons are pressed.

■ Transmit Program Change Numbers settings

Transmit PGM#	Multi-timbral setting	Effect of pressing panel buttons
On (default)	Off, On1	SOUND buttons will send PGM# shown in the left column*.
On	On2	SOUND buttons will send PGM# shown in the right column*.
Off	Off	Program Change information will not be transmitted via MIDI.

* Please refer to the 'Program Change Number List' on page 122.

1. Selecting the Transmit Program Change Numbers setting

After entering the MIDI Settings menu (page 108):

Press the ▼ or ▲ MENU buttons to select the Transmit Program Change Numbers setting.

5-4 Trans. PGM#
= On

2. Changing the Transmit Program Change Numbers setting

Press the ▼ or ▲ VALUE buttons to turn the Transmit Program Change Numbers setting on or off.

* Any changes made to the Transmit Program Change Numbers setting will remain until the power is turned off.

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

5-4 Trans. PGM#
= On



5-4 Trans. PGM#
= Off

■ Program Change Numbers and Dual/Split mode

- When using Dual or Split mode, On/Off information and sound type settings for are transmitted as exclusive data, however program change numbers will not be transmitted.
- Program change numbers will also be transmitted when Multi-timbral mode is set to On1 or On2.

5-5 Multi-timbral Mode

The Multi-timbral Mode setting determines whether or not the ES7 digital piano is able to receive MIDI information on more than one MIDI channel simultaneously. This allows the instrument to play back multi-track, multi-timbral performance data sent from an external MIDI device.

Multi-timbral Mode settings

Multi-timbral Mode	Effect on sound heard
Off	The sound shown in the left column is selected*.
On1 (default)	The sound shown in the left column is selected*.
On2	The sound shown in the right column is selected*.

* Please refer to the 'Program Change Number List' on page 122.

1. Selecting the Multi-timbral Mode setting

After entering the MIDI Settings menu (page 108):

Press the ▼ or ▲ MENU buttons to select the Multi-timbral Mode setting.

```
5-5 Multi Timbre
= On1
```

2. Changing the Multi-timbral Mode setting

Press the ▼ or ▲ VALUE buttons to change the Multi-timbral Mode setting.

* Any changes made to the Multi-timbral Mode setting will remain until the power is turned off.

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

```
5-5 Multi Timbre
= On1
```



```
5-5 Multi Timbre
= Off
```

3. Exiting the Multi-timbral Mode setting

Press the EXIT button to exit the Multi-timbral Mode setting and return to the main settings menu.

Channel Mute

The Channel Mute setting determines which MIDI channels (1-16) are activated to receive MIDI information when Multi-timbral mode is enabled.

* This setting is only available when the Multi-timbral Mode setting is set to 'On1' or 'On2'.

Channel Mute settings

Channel Mute	Description
Play (default)	The instrument will receive MIDI information on the specified MIDI channel.
Mute	The instrument will not receive MIDI information on the specified MIDI channel.

1. Selecting the Channel Mute setting

After setting the Multi-timbral Mode to 'On1' or 'On2':

Press the ▼ or ▲ MENU buttons to select the Channel Mute setting for each MIDI channel.

```
5-5 Ch 1 Mute
= Play
```

2. Changing the Channel Mute setting

Press the ▼ or ▲ VALUE buttons to alternate between 'Play' and 'Mute' settings

* Any changes made to the Channel Mute setting will remain until the power is turned off.

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

```
5-5 Ch 1 Mute
= Play
```



```
5-5 Ch 1 Mute
= Mute
```

3. Exiting the Channel Mute setting

Press the EXIT button to exit the Channel Mute setting and return to the main settings menu.

USB MIDI (USB to Host connector)

The ES7 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	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) 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.co.jp/english * 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' is registered trademark of Apple Computer, Inc.

* Other company names and product names mentioned referenced herein may be registered trademarks or trademarks of respective owners.

Power Settings

6-1 Auto Power Off

The ES7 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

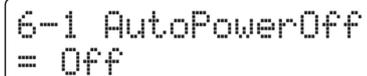
Auto Power Off	Description
Off	The Auto Power Off function is disabled.
30 min.	The instrument will turn off automatically after 30 minutes of inactivity.
60 min.	The instrument will turn off automatically after 60 minutes of inactivity.
120 min.	The instrument will turn off automatically after 120 minutes 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.



6-1 AutoPowerOff
= Off

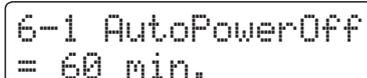
2. Changing the Auto Power Off setting

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.



6-1 AutoPowerOff
= Off



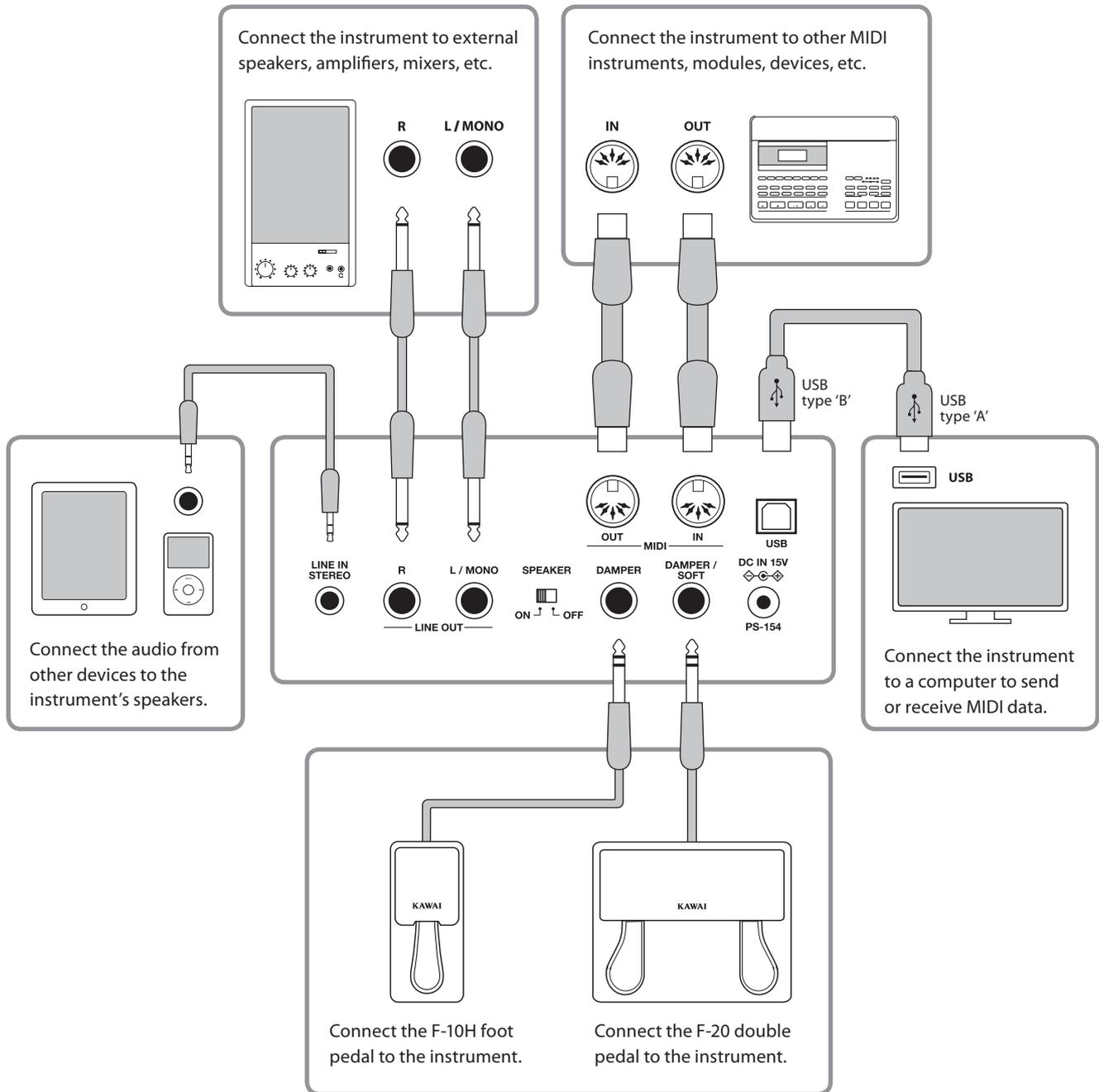
6-1 AutoPowerOff
= 60 min.

3. Exiting the Auto Power Off setting

Press the EXIT button to exit the Auto Power Off setting and return to the main settings menu.

Connecting to Other Devices

The rear side of the ES7 digital piano features a variety of jacks that allow the instrument 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 ES7's amplifier and speaker system. The illustration below provides a visual overview of the instrument's connectors and typical applications.



Before connecting the ES7 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 ES7 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 STEREO and LINE OUT jacks of the ES7 digital piano together with the same cable. An audio loop (oscillation sound) will occur, resulting in damage to the unit.

Rear Connectors

■ LINE OUT jacks (1/4" phone jack)

These jacks are used to connect the stereo output of the instrument'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 77 for more information.

■ LINE IN STEREO jacks (1/8" mini jack)

This jack is used to connect the stereo output from an external audio device, such as a CD or MP3 player, to the instrument's amplifier (incl. LINE OUT) and speaker system. To adjust the LINE IN level, please use the volume controls on the device itself.

■ MIDI IN/OUT jacks

These jacks are used to connect the ES7 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 108 for more information about MIDI.

■ SPEAKER ON/OFF switch

This switch is used to turn the ES7's built-in speakers on or off, and may be useful when connecting the instrument to external speakers or an amplification system via the LINE OUT jacks. Please note that when headphones are connected, sound will not be produced by the built-in speakers, regardless of the SPEAKER switch position.

■ DAMPER & DAMPER/SOFT jacks

These jacks are used to connect either the F-10H foot pedal or F-20 double pedal unit to the instrument.

* Please refer to page 14 for more information about pedal functions.

■ USB to Host port ('B' type)

This USB port is used to connect the ES7 digital piano to a computer using an inexpensive USB cable. When connected, the instrument can be used as a standard MIDI device, allowing it to send and receive MIDI data. Connect a 'B' type USB connector to the instrument, and an 'A' type USB connector to the computer.

* Please refer to page 116 for more information about USB MIDI.

Front Connectors

■ PHONES jacks (1/4" phone jack)

These jacks are used to connect stereo headphones to the ES7 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 device information

■ The 'USB to Device' functionality of the ES7 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.

■ USB to Device port ('A' type)

This USB port is used to connect a USB memory device to the ES7 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 save recorder songs stored in internal memory for posterity.

■ It may be necessary to format the USB memory device before it can be used with the ES7 digital piano. If so, please refer to the USB Format function instructions on page 81. 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.

Troubleshooting

The table below summarises issues that may be experienced with the ES7 digital piano, explaining the typical cause(s), and recommended solution(s).

	Issue	Possible Cause and Solution	Page no.
Power	The instrument does not turn on.	Check that the AC power adaptor is firmly attached to the instrument, and connected to an AC outlet.	p. 15
	The instrument turns itself off after a period of inactivity.	Check that the 'Auto Power Off' setting is not enabled.	p. 117
Sound	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. 15
		Check that a pair of headphones (or headphone adaptor plug) are not connected to the PHONES jacks.	p. 14
	The sound distorts when playing at very loud volume levels.	Check that the Local Control setting in the MIDI Settings menu is set to On.	p. 112
		Check that the MASTER VOLUME slider is set to an appropriate level, reducing the volume if excessive distortion is heard.	p. 15
		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.	p. 77
Strange sounds or noises are heard when playing with piano sounds.	The ES7 digital piano attempts to reproduce the rich variety of tones created by an acoustic grand piano as accurately as possible. This includes string resonances and damper noises, and other subtle characteristics that contribute to the overall piano playing experience. 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.	p. 84	
The top 18 notes of the keyboard sustain far 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.	-	
Phones	The headphone volume is too low.	Check the technical specifications of the headphones. 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. 76
USB	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. Disconnect the USB 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.	p. 119
	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.	p. 119
MP3/WAV/SMF Audio	No sound can be heard when playing an MP3/WAV audio file stored on a USB memory device.	Check that the audio player volume is not set to 0. Check that the format of the audio file is supported and listed in the 'Audio Player supported format specifications' table.	p. 55 p.54
	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. 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.54
	An SMF MIDI file stored on a USB memory device sounds strange when played back.	The ES7 digital piano does not contain the full General MIDI sound bank selection. Consequently, some SMF song files may not be reproduced entirely accurately when played through the instrument.	p. 56
	When recording MP3/WAV audio files, the volume is too low/too high (distorted).	Adjust the 'Audio Recorder Gain' setting in the 'Basic Settings' menu.	p. 78

Demo Song List

Sound Name	Song Title	Composer
Main Demo	Original	Kawai

PIANO 1		
Concert Grand	Original	Kawai
Studio Grand	Original	Kawai
Mellow Grand	Sonata No.30 Op.109	L. v. Beethoven
Modern Piano	Original	Kawai

PIANO 2		
Concert Grand 2	Waltz No.6 Op.64-1: "Petit Chien"	F. F. Chopin
Studio Grand 2	Original	Kawai
Mellow Grand 2	La fille aux cheveux de lin	C. Debussy
Rock Piano	Original	Kawai

E. PIANO		
Classic E.Piano	Original	Kawai
Modern E.P.	Original	Kawai

ORGAN		
Drawbar Organ	Original	Kawai
Jazz Organ	Original	Kawai
Church Organ	Chorale Prelude "Wachet auf, ruft uns die Stimme"	J. S. Bach

HARPSI / MALLETS		
Harpsichord	French Suite No. 6	J. S. Bach
Vibraphone	Original	Kawai
Clavi	Original	Kawai

STRINGS / CHOIR		
Slow Strings	Original	Kawai
String Pad	Original	Kawai
String Ensemble	Le quattro stagioni: La primavera	A. Vivaldi
Choir Ooh/Aah	Original	Kawai
Choir Aah	Londonderry Air	Irish folk song
New Age Pad	Original	Kawai

BASS		
Wood Bass	Original	Kawai
Fretless Bass	Original	Kawai
W. Bass & Ride	Original	Kawai

RHYTHM SECTION		
Rhythm Section Demo	Original	Kawai

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

Program Change Number List

Sound Name	Multi-timbral mode = off/on1		Multi-timbral mode = on2	
	Program Number	Program Number	Bank MSB	Bank LSB
PIANO 1				
Concert Grand	1	1	121	0
Studio Grand	2	1	121	1
Mellow Grand	3	1	121	2
Modern Piano	4	2	121	0
PIANO 2				
Concert Grand 2	5	1	95	16
Studio Grand 2	6	1	95	17
Mellow Grand 2	7	1	95	18
Rock Piano	8	2	121	1
E. PIANO				
Classic E.Piano	9	5	121	0
60's E.Piano	10	5	121	3
Modern E.Piano	11	6	121	0
Classic E.Piano 2	12	5	121	1
DRAWBAR				
Drawbar Organ	13	17	121	0
Jazz Organ	14	18	121	0
Principal Oct.	15	20	95	24
Church Organ	16	20	121	0
HARPSI / MALLETS				
Harpsichord	17	7	121	0
Vibraphone	18	12	121	0
Clavi	19	8	121	0
Marimba	20	13	121	0
STRINGS / CHOIR				
Slow Strings	21	45	95	1
String Pad	22	49	95	8
Warm Strings	23	49	95	1
String Ensemble	24	49	121	0
Choir Ooh/Aah	25	54	95	53
Choir Aah	26	53	121	0
New Age Pad	27	89	121	0
Atmosphere	28	100	121	0
BASS & GUITAR				
Wood Bass	29	33	121	0
Electric Bass	30	34	121	0
Fretless Bass	31	36	121	0
W. Bass & Ride	32	33	95	1

Sound Name	Multi-timbral mode = off/on1	Multi-timbral mode = on2		
	Program Number	Program Number	Bank MSB	Bank LSB

MIDI				
Concert Grand RS	33	1	95	22
Studio Grand RS	34	1	95	23
Studio Grand 2 RS	35	1	95	24
Classic E.Piano RS	36	5	95	3
Vibraphone RS	37	12	121	1
String Ensemble RS	38	49	95	2
Wood Bass RS	39	33	95	2
Electric Bass RS	40	34	95	1
Fretless Bass RS	41	36	95	1
Drawbar Organ 2 RS	42	17	95	1
Jazzier RS	43	18	95	1
Perc. Organ RS	44	18	121	1
Rock Organ RS	45	19	121	0
Nylon Acoustic RS	46	25	121	0
Ballad Guitar RS	47	26	95	6
Modern Jazz Gtr RS	48	27	95	10
Cutting Guitar RS	49	28	95	3
Cutting Guitar 3 RS	50	28	95	5
Muted Electric RS	51	29	121	0
OverdriveGuitar RS	52	30	121	0
Wood Bass 4 RS	53	33	95	5
Electric Bass 3 RS	54	34	95	6
FingerSlap Bass RS	55	34	121	1
Pick Bass RS	56	35	121	0
Synth Bass 2 RS	57	40	121	0
Synth Bass 4 RS	58	40	121	1
Strings sf. RS	59	49	95	9
StringEnsemble2 RS	60	50	121	0
Euro Hit RS	61	56	121	3
Synth Brass RS	62	63	121	0
Jump Brass RS	63	63	121	3
SequencedAnalog RS	64	82	121	4
Bright Warm Pad RS	65	90	95	1
Bowed Pad RS	66	93	121	0
Multi Sweep RS	67	96	95	1
Brightness 2 RS	68	101	95	1
GtrCuttingNoise RS	69	121	121	1
GtrCuttingNoise2 RS	70	121	95	1
Analog Set RS	71	d26	-	-
Ambience Set RS	72	d33	-	-
Platinum Set RS	73	d1	-	-
Ballad Set RS	74	d9	-	-

* RS = Rhythm Section / Selectable when Multi-timbral Mode = On1 / On2

Drum Sound Mapping List

	Analog Set RS	Ambience Set RS	Platinum Set RS	Ballad Set RS
C#	Snare Roll	Snare Roll	Snare Roll	Snare Roll
D	Finger Snap	Finger Snap	Finger Snap	Finger Snap
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	Analog BD2	Ambi BD2	Plat BD2	Bala BD2
C1	C	Ambi BD1	Plat BD1	Bala BD1
C#	Analog Rim	Ambi Rim	Plat Rim	Plat Rim
D	Analog SD1	Ambi SD1	Plat SD1	Bala SD1
D#	Hand Clap	Ambi Clap	Ambi Clap	Ambi Clap
E	Analog SD2	Ambi SD2	Plat SD2	Bala SD2
F	Analog LowTom2	AmbiLowTom2	FunkLowTom2	FunkLowTom2
F#	Analog HHC	Ambi HHC	Funk HHC	Funk HHC
G	Analog Low Tom 1	AmbiLowTom 1	FunkLowTom1	FunkLowTom1
G#	Analog HHP	Ambi HHP	Funk HHP	Funk HHP
A	Analog Mid Tom2	AmbiMidTom2	FunkMidTom2	FunkMidTom2
A#	Analog HHO	Ambi HHO	Funk HHO	Funk HHO
B	Analog Mid Tom1	AmbiMidTom1	FunkMidTom1	FunkMidTom1
C2	C	AmbiHiTom2	FunkHiTom2	FunkHiTom2
C#	Analog Crash1	Ambi Crash1	Funk Crash1	Ambi Crash1
D	Analog Hi Tom1	AmbiHiTom1	FunkHiTom1	FunkHiTom1
D#	Ride Cymbal 1	Ambi Ride1	Ambi Ride1	Ambi Ride1
E	Chinese Cymbal	Chinese Cymbal	Chinese Cymbal	Chinese Cymbal
F	Ride Cup	Ambi Cup	Ambi Cup	Ambi Cup
F#	Tambourine	Tambourine	Tambourine	Tambourine
G	Splash Cymbal	Funk Splash	Funk Splash	Funk Splash
G#	Analog Cowbell	Cowbell	Cowbell	Cowbell
A	Crash Cymbal 2	Funk Crash2	Funk Crash2	Funk Crash2
A#	Vibra-slap	Vibra-slap	Vibra-slap	Vibra-slap
B	Ride Cymbal 2	Ambi Ride2	Ambi Ride2	Ambi Ride2
C3	C	High Bongo	High Bongo	High Bongo
C#	Low Bongo	Low Bongo	Low Bongo	Low Bongo
D	Analog Hi Conga	Mute Hi Conga	Hi Conga	Hi Conga
D#	Analog Mid Conga	Open Hi Conga	Mid Conga	Mid 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
C4	C	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
C5	C	Bar Chimes	Bar Chimes	Bar Chimes
C#	Castanets	Castanets	Castanets	Castanets
D	Mute Surdo	Mute Surdo	Mute Surdo	Mute Surdo
D#	Open Surdo	Open Surdo	Open Surdo	Open Surdo

Rhythm Section Style List

Genre	Style Name
16th Swing	Funk Shuffle 1
	Funk Shuffle 2
	Hip Hop 1
	Hip Hop 2
	Hip Hop 3
	Hip Hop 4
	16 Shuffle 1
	16 Shuffle 2
	16 Shuffle 3
16th Funk	Funky Beat 1
	Funky Beat 2
	Funky Beat 3
	Funk 1
	Funk 2
	Funk 3
16th Straight	Jazz Funk
	16 Beat 1
	16 Beat 2
	16 Beat 3
	16 Beat 4
	Rim Beat
	Roll Beat
	Light Ride 1
	Dixie Rock
16th Latin	Surdo Samba
	Latin Groove
	Light Samba
	Songo
	Samba
	Merenge
16th Dance/Techno	Funky Beat 4
	16 Beat 5
	Disco 1
	Disco 2
	Techno 1
	Techno 2
	Techno 3
	Heavy Techno
16th Ballad	Ballad 1
	Ballad 2
	Ballad 3
	Ballad 4
	Ballad 5
	Light Ride 2
	Electro Pop 1
	Electro Pop 2
	16 Shuffle 4
	8th Ballad
Slow Rock	
R&B Ballad	
Triplet 50's Ballad	
Triplet R&B Ballad	

Genre	Style Name
8th Straight	8 Beat 1
	8 Beat 2
	Smooth Beat
	Pop 1
	Pop 2
	Ride Beat
	Slip Beat
8th Rock	Jazz Rock
	8 Beat 3
	Rock Beat 1
	Rock Beat 2
	Rock Beat 3
	Rock Beat 4
	Blues/Rock
	Heavy Beat
8th Swing	Motown 1
	8th Fast Shuffle
	Motown 2
	Gospel Shuffle
Triplet/Waltz	Ragtime
	Country 2 Beat
	Triplet Rock 1
	Triplet Rock 2
	Bembe
	Rock Shuffle
	Boogie
	Triplet 1
	Triplet 2
	Reggae
Gospel Ballad	
Waltz	
Jazz	H.H. Swing
	Ride Swing
	Fast 4 Beat
	Afro Cuban
	Jazz Waltz 1
	Jazz Waltz 2
	5/4 Swing
Latin	H.H. Bossa Nova
	Ride Bossa Nova
	Beguine
	Mambo
	Cha Cha
	Tango
Habanera	

Rhythm Section Chord Types

The tables below list chord types recognised by the ES7 digital piano's Rhythm Section. Each chord can be played by pressing the notes marked with a ● symbol in the diagrams below. In addition, the common Major, Minor, M7, and 7, chord types can also be played by pressing just the notes marked with a ★ symbol.

Chord Name	Notes	Chord Name	Notes	Chord Name	Notes
C Maj		D ^b Maj (C#)		D Maj	
C sus4		D ^b sus4 (C#)		D sus4	
C aug		D ^b aug (C#)		D aug	
C min		D ^b min (C#)		D min	
C M7		D ^b M7 (C#)		D M7	
C 6		D ^b 6 (C#)		D 6	
C m7		D ^b m7 (C#)		D m7	
C mM7		D ^b mM7 (C#)		D mM7	
C m6		D ^b m6 (C#)		D m6	
C 7		D ^b 7 (C#)		D 7	
C 7 ^(b5)		D ^b 7 ^(b5) (C#)		D 7 ^(b5)	
C 7 ^(#5)		D ^b 7 ^(#5) (C#)		D 7 ^(#5)	
C 7sus4		D ^b 7sus4 (C#)		D 7sus4	
C m7 ^(b5)		D ^b m7 ^(b5) (C#)		D m7 ^(b5)	
C dim		D ^b dim (C#)		D dim	

Chord Name	Notes	Chord Name	Notes	Chord Name	Notes
E ^b Maj (D [#])		E Maj		F Maj	
E ^b sus4 (D [#])		E sus4		F sus4	
E ^b aug (D [#])		E aug		F aug	
E ^b min (D [#])		E min		F min	
E ^b M7 (D [#])		E M7		F M7	
E ^b 6 (D [#])		E 6		F 6	
E ^b m7 (D [#])		E m7		F m7	
E ^b mM7 (D [#])		E mM7		F mM7	
E ^b m6 (D [#])		E m6		F m6	
E ^b 7 (D [#])		E 7		F 7	
E ^b 7 ^(b5) (D [#])		E 7 ^(b5)		F 7 ^(b5)	
E ^b 7 ^(#5) (D [#])		E 7 ^(#5)		F 7 ^(#5)	
E ^b 7sus4 (D [#])		E 7sus4		F 7sus4	
E ^b m7 ^(b5) (D [#])		E m7 ^(b5)		F m7 ^(b5)	
E ^b dim (D [#])		E dim		F dim	

Rhythm Section Chord Types

Chord Name	Notes	Chord Name	Notes	Chord Name	Notes
G ^b Maj (F [♯])		G Maj		A ^b Maj (G [♯])	
G ^b sus4 (F [♯])		G sus4		A ^b sus4 (G [♯])	
G ^b aug (F [♯])		G aug		A ^b aug (G [♯])	
G ^b min (F [♯])		G min		A ^b min (G [♯])	
G ^b M7 (F [♯])		G M7		A ^b M7 (G [♯])	
G ^b 6 (F [♯])		G 6		A ^b 6 (G [♯])	
G ^b m7 (F [♯])		G m7		A ^b m7 (G [♯])	
G ^b mM7 (F [♯])		G mM7		A ^b mM7 (G [♯])	
G ^b m6 (F [♯])		G m6		A ^b m6 (G [♯])	
G ^b 7 (F [♯])		G 7		A ^b 7 (G [♯])	
G ^b 7 ^(b5) (F [♯])		G 7 ^(b5)		A ^b 7 ^(b5) (G [♯])	
G ^b 7 ^(#5) (F [♯])		G 7 ^(#5)		A ^b 7 ^(#5) (G [♯])	
G ^b 7sus4 (F [♯])		G 7sus4		A ^b 7sus4 (G [♯])	
G ^b m7 ^(b5) (F [♯])		G m7 ^(b5)		A ^b m7 ^(b5) (G [♯])	
G ^b dim (F [♯])		G dim		A ^b dim (G [♯])	

Chord Name	Notes	Chord Name	Notes	Chord Name	Notes
A Maj		B ^b Maj (A [#])		B Maj	
A sus4		B ^b sus4 (A [#])		B sus4	
A aug		B ^b aug (A [#])		B aug	
A min		B ^b min (A [#])		B min	
A M7		B ^b M7 (A [#])		B M7	
A 6		B ^b 6 (A [#])		B 6	
A m7		B ^b m7 (A [#])		B m7	
A mM7		B ^b mM7 (A [#])		B mM7	
A m6		B ^b m6 (A [#])		B m6	
A 7		B ^b 7 (A [#])		B 7	
A 7 ^(b5)		B ^b 7 ^(b5) (A [#])		B 7 ^(b5)	
A 7 ^(#5)		B ^b 7 ^(#5) (A [#])		B 7 ^(#5)	
A 7sus4		B ^b 7sus4 (A [#])		B 7sus4	
A m7 ^(b5)		B ^b m7 ^(b5) (A [#])		B m7 ^(b5)	
A dim		B ^b dim (A [#])		B dim	

Rhythm Section Preset Chord Sequences

The table below lists Preset Chord sequences utilised by the ES7 digital piano's Rhythm Section when the 'ACC Mode' setting is set to 'Preset Chord'.

The Preset Chord sequences can last for 8, 12, or 16 bars, with the bar number and chord name written in the spaces below. If a chord name is not written, the previous chord will continued to be played. The more complicated chord names, such as 'F#m7(b5)', may appear in a simplified form when shown in the LCD display. If two chords are listed (e.g. 'D/C'), the first letter indicates the key of the chord, while the second letter indicates the key of the bass part.

Preset Chord	No. of bars	Chord pattern															
		1 (9)		2 (10)		3 (11)		4 (12)		5 (13)		6 (14)		7 (15)		8 (16)	
Chord1	8	CM7		Bm7(b5)	Bb7	Am7		Gm7	C7	Fm7		Em7	A7	Dm7		G7sus4	G7
Chord2	12	F#m7(b5)		B7		Em7		A7		F#m7(b5)		B7		Em7		A7	
Chord3	8	C								F							
Chord4	8	C7						F7		Bb7		G7		C7			
Chord5	8	C7				Ab7		Bb7		C7				Ab7		G7	
Chord6	16	CM7		D7(#5)		G7sus4		G7sus4		CM7						G7(#5)	
		EbM7						G7		CM7		F7		BbM7		G7(#5)	
Chord7	12	CM7	Am7	Dm7	G7sus4	CM7	Am7	Dm7	G7sus4	CM7	Am7	Dm7	G7sus4	CM7	Am7	Dm7	G7sus4
		Em7	Am7	Em7	Am7	Dm7		G7sus4									
Chord8	8	CM7		Dm7		CM7		Dm7	G7	Gm7	C7	FM7		Fm7	Bb7	CM7	
Chord9	8	C7				Bb7				C7				G7		F7	
Chord10	16	C7				Eb7				F7				C7			
		C7				Eb7				F7				G7			
Chord11	8	C7				F7		C7		C7				F7			G7
Chord12	8	CM7				F7				CM7				F7			
Chord13	8	AbM7		DbM7		Gm7		C7		AbM7		Gm7		F#dim		G7(#5)	
Chord14	8	Ab7		G7(#5)		CM7		F7		Ab7		G7(#5)		F7			
Chord15	8	C7								Eb7		F7		C7			
Chord16	16	AbM7				Gm7				AbM7				Gm7		C7sus4	C7
		AbM7				Gm7				AbM7				G7sus4		G7	
Chord17	8	C		CM7		C7		FM7		FmM7		CM7		F#m7(b5)		G7sus4	G7
Chord18	8	CM7				Dm7		Gaug		CM7				Dm7		Gaug	
Chord19	16	AbM7		Bb7		EbM7		A7		AbM7		Gaug		CM7		F7	
		AbM7		Bb7		Gm7		C7		AbM7		G7(#5)		F7			
Chord20	8	C				D/C				Bb/C				F/C			
Chord21	8	C		G		Bb		F		Ab		Eb		Dm7		G7	
Chord22	8	CM7		B7(#5)	B7	Bb6		A7		AbM7		Dm7	G7	CM7	Am7	Dm7	G7
Chord23	8	Ab/Bb		CM7		Ab/Bb		EbM7		Bm7		Bb7		F/A	Dm7(b5)/Ab	G7	G7(#5)
Chord24	8	C7						G7								C7	
Chord25	8	F7				C7				F7				G7			
Chord26	8	CM7		G7(#5)		Gm7	C7	FM7		Fm7	Bb7	CM7		Am7	D7	G7	
Chord27	8	C7sus4								Bb7sus4							
Chord28	16	CM7				C7				CM7				C7			
		F#m7(b5)		B7		Em7		A7		F#m7(b5)		B7		Em7			
Chord29	8	Cm	CmM7	CM7	Am7(b5)	AbM7		G7(#5)		Cm	CmM7	CM7	Am7(b5)	AbM7		G7(#5)	
Chord30	16	Fm7		Bb7		EbM7		AbM7		Dm7(b5)		G7(#5)		Gm7(b5)		C7	
		Fm7		Bb7		EbM7		AbM7		Dm7(b5)		G7(#5)		CM7			
Chord31	8	C		Dm		G	F	C		A7		Dm		G	F	C	
Chord32	8	C		G7		Am		Am7/G		F		D7		G7			
Chord33	8	C		G7		F				D7		G7		Am			
Chord34	16	C7				F7				C7				F7			
		G7		F7		G7		F7		C7							
Chord35	8	C		AbM7		Bb		Gm7		C		AbM7		Bb		Gm7	
Chord36	8	AbM7				EbM7				AbM7				EbM7		D7	DbM7
Chord37	16	C		Em7		Fm7		C				Em7		Fm7		C	
		Am7		Em7		Am7		G7		Am7		Em7		G7sus4		G7	
Chord38	8	Em7				Dm7				Em7				Dm7			
Chord39	8	C7								Bb7sus4							
Chord40	8	C7				Bb-m7		Bb7		C7				Bb-m7		Db7	
Chord41	8	C7		Bb/C		Ab/Bb		Bb		C7		Bb/C		Ab/Bb		Bb	
Chord42	8	C7				CM7		Gm7/C		F/C		Ab/C		Gsus4/C			
Chord43	8	C7				Eb7		D7		F7		E7		A7			
Chord44	12	FM7				Bm7(b5)				Em7				EbM7			
		Dm7		G7		C6											
Chord45	8	C		Am		F		C	G	C		Am		F		G7	
Chord46	8	Em7		Am7		Dm7		G7		Em7		A7		Dm7		G7	
Chord47	8	FM7		Em7		FM7		Am7		Fm7	Bb7	EbM7	AbM7	Dm7		G7sus4	
Chord48	8	FM7		Em7		FM7		Em7	C7sus4	FM7		Em7		FM7	E7	Dm7	G7sus4

Preset Chord	No. of bars	Chord pattern															
		1 (9)	2 (10)	3 (11)	4 (12)	5 (13)	6 (14)	7 (15)	8 (16)								
Chord49	8	CM7	FM7	CM7	FM7	Bm7	E7	AM7	GM7	FM7	G7sus4						
Chord50	8	A-M7	Gm7	B-M7	A-M7	A-7	D-M7	Cm7	Dm7(b-5)	G7							
Chord51	8	C	G/B	Gm/B-	F/A	A-6	C/G	F#m7(b-5)	G7								
Chord52	8	F	F#dim	C/G	E7/G#	Am7	D7	Dm7	G7sus4	G7							
Chord53	8	CM7	B-M7	CM7	B-M7	Am7	D7	Dm7	G7	G7(#5)	CM7	Gm7	C7				
Chord54	8	F#m7(b-5)	F7	Em7	A7	A7(#5)	Dm7	G7	G7(#5)	CM7	Gm7	C7					
Chord55	8	FM7	FmM7	Em7	E7	Am7	Dm7	G7sus4	CM7								
Chord56	8	CM7	FM7	Bm7(b-5)	E7	Am7	C7	FM7	Em7	Am7	Dm7	G7sus4	G7				
Chord57	8	C	G/B	F/A	C/G	F	C/E	D7/F#	G7	C	G/B	F/A	C/G	D7/F#	D7	G7sus4	G7
Chord58	8	CM7	FM7	Dm7	G7sus4	G7	FM7	G7	Em7	Am7	Dm7	G7sus4	G7				
Chord59	8	FM7	CM7	FM7	CM7	Em7(b-5)	A7	Dm7	Fm7	G7sus4	G7						
Chord60	8	C	F	C	F	Am	Dm	G									
Chord61	8	C	F	C	F	G	Am	Dm	G7	Em	Am	Dm	G7				
Chord62	8	C	Am	Dm	G	C	Am	Dm	G	Em	Am	Dm	G7	Em	Am	Dm	G7
Chord63	8	Cm7	Gm7	Cm7	Gm7	Cm7	Gm7	Cm7	Gm7	Fm7	G7	Am7	Dm7	G7	Al-7	G7	
Chord64	8	C	CM7	C7	F	Dm7	Am7	D7	G7								
Chord65	16	CM7	Fm7	B-7	Cm7	C7	Fm7	F#dim	G7(#5)								
Chord66	8	C	Am7	D7	G7sus4	C	Am7	D7	G7sus4	C							
Chord67	16	Fm7	E7	Am7	D7	G7sus4	C	Am7	D7	G7sus4	C						
Chord68	16	C7	C7														
Chord69	8	Cm7															
Chord70	8	Dm7															
Chord71	8	C7															
Chord72	8	C7															
Chord73	12	C	F	C	F												
Chord74	8	Cm															
Chord75	16	C	G7														
Chord76	8	C7															
Chord77	8	C	G7	C7	F7	C	F	G7	C	F	C	G7					
Chord78	16	C	Dm7	G7	Em7	Am7	Dm7	G7	C								
Chord79	8	C7	F7	C7	C	C7	F	C	D7	G7	D7	G7					
Chord80	16	C	F	C	G7	C	C7	F	C								
Chord81	16	C	C7	F	C	C											
Chord82	8	C7	F7	C7	F	C											
Chord83	8	C															
Chord84	8	C7sus4	C7	C7sus4	B-7sus4	B-7	B-7sus4	A-7sus4	A-7	A-7sus4	G7sus4	G7	G7sus4				
Chord85	8	C															
Chord86	12	C6	F7	C6													
Chord87	8	C	G	Em7	Am7	Dm7	D7	G7	C	G	Em7	A7	Dm7	G7	C		
Chord88	16	C	CM7	C7	F	Fm6	Em7	A7	Dm7	G7	C	Fm6	C				
Chord89	16	F	G7	Em7	Am7	Dm7	G7	D7	G7sus4	D7	G7sus4	G7					
Chord90	8	C	F	C	C	G7	C	C	F	C	C	G7	C				
Chord91	16	C															
Chord92	12	C9	F13	C9	A7(b-13)	Dm9	G13	F13									
Chord93	16	C	CM7	C7	Em7(b-5)	A7	Dm7	Fm7	Em7	A7	Dm7	G7					
Chord94	16	Fm7	B-7	B-M7	Bm7	E7	Am7	D7	Dm7	G7	CM7	C7					
Chord95	16	CM7	Fm7	B-7	Gm7	C7	C7(#5)	Fm7	B-7	E-6	G7	G7(#5)	CM7	C7			
Chord96	8	CM7															
Chord97	8	A-M7	D-7	G-M7	G-M7	A-M7	D-7	G-M7	Fm7	B-7	E-M7	A-M7	Fm7	B-7	G7	G7(#5)	
Chord98	16	CM7	Cdim	B-M7	CM7	Cdim	B-M7	Gm7	C7	C7(#5)	Fm7	Fm7(b-5)	CM7				
Chord99	16	C	D7	Dm7	G7	C	C	C	A7	D7	Dm7	G7	C				
Chord100	16	Cm	G7														

Settings List

The tables below list all of the settings/functions that can be adjusted from the ES7 digital piano's panel interface, in addition to available ranges/types, default settings, and Registration/User Memory storing capabilities.

No.	Setting Name	Range / Type	Default Setting	Registration	User Memory
1. Basic Settings					
1-1	Equaliser	Off, Loudness, Bass Boost, Treble Boost, Mid Cut, User	Off	●	●
	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	Wall EQ	Off, On	Off	-	●
1-3	Speaker Volume	Normal, Low	Normal	-	●
1-4	Phones Volume	Normal, High	Normal	-	●
1-5	Line Out Volume	0 - 10	10	-	●
1-6	Audio Rec. Gain	0 dB - +15 dB	0 dB	-	●
1-7	Tuning	420.0 Hz - 453.0 Hz	440.0 Hz	●	●
1-8	Damper Hold	Off, On	Off	●	●
1-9	F-20 Mode	Damper/Soft, Sostenuto/Soft, Damper/Soste.	Damper/Soft	●	●
1-10	Four Hands	Off, On	Off	●	●
1-11	User Memory	-	-	-	-
1-12	Factory Reset	-	-	-	-
2. Virtual Technician					
2-1	Touch Curve	Light+, Light, Normal, Heavy, Heavy+ Off, User1/2	Normal	●	●
2-2	Voicing	Normal, Mellow 1, Mellow 2, Dynamic, Bright 1, Bright 2	Normal	●	●
2-3	Damper Resonance	Off, 1 - 10	5	●	●
2-4	Damper Noise	Off, 1 - 10	5	●	●
2-5	String Resonance	Off, 1 - 10	5	●	●
2-6	Key-off Effect	Off, 1 - 10	5	●	●
2-7	Fall-back Noise	Off, 1 - 10	5	●	●
2-8	Hammer Delay	Off, 1 - 10	Off	●	●
2-9	Temperament	Equal (Piano), Pure Major, Pure Minor, Pythagorean, Meantime, Werckmeister, Kirnberger, Equal (Flat), Equal, User	Equal (Piano)	●	●
	Stretch Tuning	Normal, Wide (when Equal(Piano) or Equal)	Normal	●	●
	Temperament Key	C - B (when NOT using Equal)	C	●	●
	User Temperament	-50 - +50 for each note C - B	0	●	●
3. Key Settings					
3-1	Lower Octave Shift	0 - +3	0	●	●
3-2	Lower Pedal On/Off	Off, On	Off	●	●
3-3	Split Balance	1:9, 2:8, 3:7, 4:6, 5:5, 6:4, 7:3, 8:2, 9:1	5:5	●	●
3-4	Layer Octave Shift	-2 - +2	0	●	●
3-5	Layer Dynamics	Off, 1 - 10	10	●	●
3-6	Dual Balance	1:9, 2:8, 3:7, 4:6, 5:5, 6:4, 7:3, 8:2, 9:1	5:5	●	●
4. Rhythm Settings					
4-1	Rhythm Volume	1 - 10	5	●	●
4-2	Auto Fill-in	Off, 4, 8, 12, 16	8	●	●
4-3	One Finger Ad-lib	Off, On	Off	●	●
4-4	ACC Mode	Normal, Full Keyboard, Preset Chord	Normal	●	●
	Preset Chord	Chord 1 - Chord 99	Style's default	●	●
5. MIDI Settings					
5-1	MIDI Channel	1 - 16	1	●	●
5-2	Send Program Change Number	-	1	●	●
5-3	Local Control	Off, On	On	●	●
5-4	Transmit Program Change Number	Off, On	Off	●	●
5-5	Multi Timbral Mode	Off, On1, On2	Off	●	●
	Channel Mute	Play, Mute for each channel 1 - 16	All Play	●	●
6. Power Settings					
6-1	Auto Power Off	Off, 30 min., 60 min., 120 min.	Off	-	●*

* Auto Power Off setting is stored to User Memory automatically.

Setting Name	Range / Type	Default Setting	Registration	User Memory
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	●	●
Rhythm Section				
Rhythm Section On/Off (button)	Off, On	Off	●	●
Rhythm	Please refer to page 125.	FnkShuffle1	●	●
Part	All, B+Dr, Drum	All	●	●
ACC Mode	Normal, Full Keyboard, Preset Chord	Normal	●	●
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	5/5	●	●
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)	-	-
Minus One Part	Off, 1 - 16	Off	-	-
Reverb Menu				
Reverb On/Off (button)	Off, On	Off	●	●
Reverb Type	Room, Lounge, Small Hall, Concert Hall, Live Hall, Cathedral	Sound's default	●	●
Reverb Depth	1 - 10	5	●	●
Reverb Time	1 - 10	5	●	●
Effects Menu				
Effects On/Off (button)	Off, On	Off	●	●
Effect Type	Stereo Delay, Ping Delay, Triple Delay, Chorus, Classic Chorus, Tremolo, Classic Tremolo, Auto Pan, Classic Auto Pan, Phaser, Rotary, Chorus+Chorus, Chorus+Tremolo, Phaser+Pan, Phaser+Chorus	Sound's default	●	●
Effect Parameter 1	Dependent on type*	Effect's default	●	●
Effect Parameter 2	Dependent on type*	Effect's default	●	●
Effect Parameter 3 (dependent on type)	Dependent on type*	Effect's default	●	●
Effect Parameter 4 (dependent on type)	Dependent on type*	Effect's default	●	●
* Please refer to page 27 for more information about Effects parameters.				
Amp Simulator Menu				
Amp Sim On/Off (button)	Off, On	Off	●	●
Amp Type	S.Case I, S.Case II, L.Cabinet	Sound's default	●	●
Drive	1 - 10	5	●	●
Level	1 - 10	5	●	●
EQ High	-6 dB - +6dB	0 dB	●	●
EQ Low	-6 dB - +6dB	0 dB	●	●

Specifications

Keyboard	88 weighted keys with Ivory Touch key surfaces Responsive Hammer 2 (RH2) action with Let-Off	
Sound Source	Progressive Harmonic Imaging™ (PHI), 88-key piano sampling	
Internal Sounds	32 voices	PIANO1: Concert Grand, Studio Grand, Mellow Grand, Modern Piano PIANO2: Concert Grand2, Studio Grand2, Mellow Grand2, Rock Piano E.PIANO: Classic E.P., 60's E.Piano, Modern E.P., Classic E.P.2 ORGAN: Drawbar Organ, Jazz Organ, Principal Oct., Church Organ HARPSI / MALLETS: Harpsichord, Vibraphone, Clavi, Marimba STRINGS / CHOIR: Slow Strings, String Pad, Warm Strings, String Ensemble, Choir Ooh/Aah, Choir Aah, New Age Pad, Atmosphere BASS: Wood Bass, Electric Bass, Fretless Bass, W. Bass & Ride
Polyphony	max. 256 notes	
Keyboard Modes	Dual Mode, Split Mode, Four Hands Mode (Volume/Balance adjustable)	
Reverb	Type:	Room, Lounge, Small Hall, Concert Hall, Live Hall, Cathedral
	Parameters:	Reverb Depth, Reverb Time
Effects	Type:	Stereo Delay, Ping Delay, Triple Delay, Chorus, Classic Chorus, Tremolo, Classic Tremolo, Auto Pan, Classic Auto Pan, Phaser, Rotary. Combination effects x 4
	Parameters:	Dry/Wet, Time, Speed, Feedback, HighDamp, Depth. Parameters dependent on effect type.
Amp Simulator	Type:	S.Case I, S.Case II, L.Cabinet
	Parameters:	Drive, Level, EQ Low, EQ High
Virtual Technician	Touch Curve:	Light+, Light, Normal, Heavy, Heavy+, Off (Constant), User 1, User 2
	Voicing:	Normal, Mellow 1, Mellow 2, Dynamic, Bright 1, Bright 2
	Resonance, Noise & Effects:	String Resonance, Damper Resonance, Damper Noise, Fall-back Noise, Key-off Effect (incl. Key-off Release), Hammer Delay
	Temperament:	Equal (Piano), Pure Major, Pure minor, Pythagorean, Meantone, Werckmeister, Kirnberger, Equal (Flat), Equal (Stretch), User, Stretch Tuning, Key of Temperament
Internal Recorder	10 song, 2 track recorder – approximately 90,000 note memory capacity	
USB Functions	Playback:	MP3, WAV, SMF
	Record:	MP3, WAV
	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	1/4, 2/4, 3/4, 4/4, 5/4, 3/8, 6/8, 7/8, 9/8, 12/8 (Volume/Tempo adjustable)	
Rhythm Section	Styles:	100 rhythms (x 2 variations), 4-part accompaniment, 100 preset chord sequences
	Settings:	Rhythm Volume, Auto Fill-in, One Finger Ad-lib, ACC Mode, Preset Chord, Rhythm Parts Select
Demo Songs	Main demo song, Rhythm Section demo song, 25 sound demo songs	
Other Functions	Key/Song Transpose, Equaliser (incl. User EQ), Wall EQ, Speaker Volume, Phones Volume, Line Out Volume, Audio Recorder Gain, Tuning, Damper Hold, F-20 Mode, Four Hands, User Memory, Factory Reset, Lower Octave Shift, Lower Pedal On/Off, Split Balance, Layer Octave Shift, Layer Dynamics, Dual Balance, MIDI Channel, Send PGM#, Local Control, Transmit PGM#, Multi-timbral Mode, Channel Mute, Auto Power Off, Speakers On/Off	
Display	16 x 2 characters LCD	
Jacks	MIDI (IN/OUT), USB to Host, USB to Device, LINE IN STEREO, LINE OUT (L/MONO, R), DAMPER (for F-10H), DAMPER/SOFT (for F-20), PEDAL (for F-301), Headphones x 2	
Speaker System	Speakers:	(8 x 12 cm) x 2
	Output Power:	15 W x 2
Power Consumption	35 W	
Dimensions	1362 (W) x 361 (D) x 149 (H) mm / 54" (W) x 14 1/2" (D) x 6" (H)	
Weight	22.0 kg / 49 lbs.	

MIDI Exclusive Data Format

1st byte	2nd byte	3rd byte	4th byte	5th byte	6th byte	7th byte	8th byte	9th byte	10th byte
1	2	3	4	5	6	7	8	9	10

Byte	ID	Description
1	F0	Start code
2	40	Kawai ID number
3	00 - 0F	MIDI channel
4	10, 30	Function code (30 when setting Multi-timbre On/Off)
5	04	Indicates that the instrument is an electric piano
6	02	Indicates that the piano is a CA/ES model
7	data 1	See table below
8	data 2	
9	data 3	
10	F7	End code

data 1	data 2	data 3	Function
00	00	-	Multi-timbre Off
01	00	-	Multi-timbre On 1
02	00	-	Multi-timbre On 2
0F	00 - 7F	-	Split Point
14	00 - 7F	-	Dual/Split balance
16	1F - 60	-	Tune, 40: 440 Hz
17	00, 7F	-	00: Program Change Off, 7F: Program Change On
18	00 - 07	-	00: Light, 01: Normal, 02: Heavy, 03: Off, 04: Light +, 05: Heavy +, 06: User1, 07: User2
19	00 - 03	-	Lower Octave Shift
20	00 - 1F	00 - 1F	Dual, data 2: Right sound, data 3: Left sound
21	00 - 1F	00 - 1F	Split, data 2: Upper sound, data 3: Lower sound
22	00 - 1F	00 - 1F	Four Hands, data2: Upper sound, data3: Lower sound
25	00 - 08	00 - 0B	data 2: Temperament, data 3: Key
26	00, 7F	00 - 0F	Multi-timbre, data 2: 00 (Mute), 7F (Play), data 3: Channel

MIDI Implementation Chart

■ Kawai ES7 digital piano

Date: March 2012 Version: 1.0

Function	Transmit	Receive	Remarks
Basic channel	At power-up	1	1
	Settable	1 - 16	1 - 16
Mode	At power-up	Mode 3	Mode 1
	Message	×	Mode 1, 3
	Alternative	*****	×
Note number		9 - 120**	0 - 127
	Range	*****	0 - 127
Velocity	Note on	○	○
	Note off	○	○
After touch	Key specific	×	×
	Channel specific	×	×
Pitch bend	×	×	
Control change	0, 32	○	○
	7	×	○
	10	×	○
	11	×	○
	64	○	○
	66	○ *2	○
	67	○ *3	○
Program change		○ 0-127	○
	True	*****	
Exclusive	○	○	On/Off Selectable
Common	Song position	×	×
	Song selection	×	×
	Tune	×	×
Real time	Clock	×	×
	Commands	×	×
Other functions	Local On / Off	×	○
	All notes Off	×	○ (123 - 127)
	Active sensing	×	○
	Reset	×	×
<p>*1 Please refer to the Program Change Number List on page 122. *2 Applicable only when the optional F-301 triple pedal unit is connected. *3 Applicable only when the optional F-20 double pedal unit or F-301 triple pedal unit is connected.</p>			

Mode 1: omni mode On, Poly

Mode 2: omni mode On, Mono

○ : Yes

Mode 3: omni mode Off, Poly

Mode 4: omni mode Off, Mono

× : No

Owner's Manual Conventions

This owner's manual utilises a number of illustrative conventions in order to explain the ES7's various functions. The examples below provide an overview of the button LED indicator states and press types, and the appearance of different kinds of text.

■ Button LED indicator states



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.

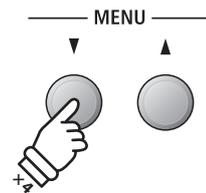
■ Button press types



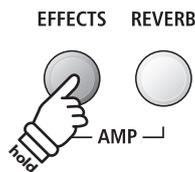
Normal press:
Select a sound or function.



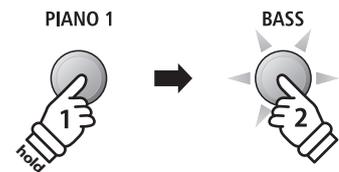
Press twice:
Select a sound or function.



Press multiple times:
Cycle through sounds or settings.



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.

KAWAI

THE FUTURE OF THE PIANO

ES7 Owner's Manual
KPSZ-0512
OW1059E-J12048

