



Digital Keyboard

KB-291

KB-290

KB-191

KB-190

Owner's Manual

Thank you for purchasing this Yamaha Digital Keyboard!

We recommend that you read this manual carefully so that you can fully take advantage of the advanced and convenient functions of the instrument.

We also recommend that you keep this manual in a safe and handy place for future reference.

Before using the instrument, be sure to read "PRECAUTIONS" on pages 3–4.



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PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe and handy place for future reference.



WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Power supply/AC power adaptor

- Do not place the power cord near heat sources such as heaters or radiators. Also, do not excessively bend or otherwise damage the cord, or place heavy objects on it.
- Only use the voltage specified as correct for the instrument. The required voltage is printed on the name plate of the instrument.
- Use the specified adaptor (page 64) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.

Do not open

- This instrument contains no user-serviceable parts. Do not open the instrument or attempt to disassemble or modify the internal components in any way. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

Water warning

- Do not expose the instrument to rain, use it near water or in damp or wet conditions, place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the instrument, turn off the power immediately and unplug the power cord from the AC outlet. Then have the instrument inspected by qualified Yamaha service personnel.
- Never insert or remove an electric plug with wet hands.

Fire warning

- Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire.

Battery

- Follow the precautions below. Failure to do so might result in explosion, fire, overheating or battery fluid leakage.
 - Do not tamper with or disassemble batteries.
 - Do not dispose of batteries in fire.
 - Do not attempt to recharge batteries that are not designed to be charged.
 - Keep the batteries separate from metallic objects such as necklaces, hairpins, coins, and keys.
 - Use the specified battery type (page 64) only.
 - Use new batteries, all of which are the same type, same model, and made by the same manufacturer.
 - Always make sure all batteries are inserted in conformity with the +/- polarity markings.
 - When the batteries run out, or if the instrument is not to be used for a long time, remove the batteries from the instrument.
 - When using Ni-MH batteries, follow the instructions that came with the batteries. Use only the specified charger device when charging.
- Keep batteries away from small children who might accidentally swallow them.
- If the batteries do leak, avoid contact with the leaked fluid. If the battery fluid should come in contact with your eyes, mouth, or skin, wash immediately with water and consult a doctor. Battery fluid is corrosive and may possibly cause loss of sight or chemical burns.

If you notice any abnormality

- When one of the following problems occur, immediately turn off the power switch and disconnect the electric plug from the outlet. (If you are using batteries, remove all batteries from the instrument.) Then have the device inspected by Yamaha service personnel.
 - The power cord or plug becomes frayed or damaged.
 - It emits unusual smells or smoke.
 - Some object has been dropped into the instrument.
 - There is a sudden loss of sound during use of the instrument.

CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the instrument or other property. These precautions include, but are not limited to, the following:

Power supply/AC power adaptor

- Do not connect the instrument to an electrical outlet using a multiple-connector. Doing so can result in lower sound quality, or possibly cause overheating in the outlet.
- When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.
- Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electrical storms.

Location

- Do not place the instrument in an unstable position where it might accidentally fall over.
- Before moving the instrument, remove all connected cables, to prevent damage to the cables or injury to anyone who might trip over them.
- When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even when the power switch is turned off, electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet.

Connections


- Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum.
- Be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.

Handling caution

- Do not insert a finger or hand in any gaps on the instrument.
- Never insert or drop paper, metallic, or other objects into the gaps on the panel or keyboard. This could cause physical injury to you or others, damage to the instrument or other property, or operational failure.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.
- Do not use the instrument/device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument, or data that is lost or destroyed.

Always turn the power off when the instrument is not in use.

Even when the [] (Standby/On) switch is in standby status (display is off), electricity is still flowing to the instrument at the minimum level.

When you are not using the instrument for a long time, make sure you unplug the power cord from the wall AC outlet.

Make sure to discard used batteries according to local regulations.

NOTICE

To avoid the possibility of malfunction/ damage to the product, damage to data, or damage to other property, follow the notices below.

■ Handling and Maintenance

- Do not use the instrument in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the instrument, TV, or radio may generate noise.
- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration, damage to the internal components or unstable operation. (Verified operating temperature range: 5° – 40°C, or 41° – 104°F.)
- Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard.
- When cleaning the instrument, use a soft cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

■ Saving data

- Some data items (page 47) are automatically saved as backup data in the internal memory even if you turn the power off. Saved data may be lost due to malfunction or incorrect operation. Save important data to a USB storage device (KB-291/KB-290; page 39) or a computer (page 45). To protect against data loss through media damage, we recommend that you save your important data onto two USB storage devices (KB-291/KB-290)/external media.

Information

■ About copyrights

- Copying of the commercially available musical data including but not limited to MIDI data and/or audio data is strictly prohibited except for your personal use.
- This product incorporates and bundles computer programs and contents in which Yamaha owns copyrights or with respect to which it has license to use others' copyrights. Such copyrighted materials include, without limitation, all computer software, style files, MIDI files, WAVE data, musical scores and sound recordings. Any unauthorized use of such programs and contents outside of personal use is not permitted under relevant laws. Any violation of copyright has legal consequences. DON'T MAKE, DISTRIBUTE OR USE ILLEGAL COPIES.

■ About functions/data bundled with the instrument

- Some of the preset songs have been edited for length or arrangement, and may not be exactly the same as the original.

■ About this manual

- The illustrations and displays as shown in this manual are for instructional purposes only, and may appear somewhat different from those on your instrument.
- In cases where no significant difference exists between KB-291/KB-290 and KB-191/KB-190 diagrams and screen images, those corresponding to the KB-291/KB-290 will be shown within this Owner's Manual.
- Windows is a registered trademark of Microsoft® Corporation in the United States and other countries.
- Apple, Mac and Macintosh are trademarks of Apple Inc., registered in the U.S. and other countries.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.

About the Manuals

This instrument has the following documents and instructional materials.

- **Owner's Manual (this book)**

Explains how to use this instrument.

- **MIDI Reference (Downloadable from the web)**

Contains the MIDI Data Format and the MIDI Implementation Chart.

To obtain this document, access the **Yamaha Manual library** (<http://www.yamaha.co.jp/manual/>), enter the appropriate name (for example, KB-291) in the Model Name box, then click [Search].

Included Accessories

- Owner's Manual (this book)
- Music Rest
- AC Power Adaptor
- Expression Pedal (KB-291/KB-290)
- Warranty
- Online Member Product Registration

You will need the PRODUCT ID on the sheet in order to fill out the User Registration form.

Formats and Functions



GM System Level 1

“GM System Level 1” is an addition to the MIDI standard which ensures that any GM-compatible music data can be accurately played by any GM-compatible tone generator, regardless of manufacturer. The GM mark is affixed to all software and hardware products that support GM System Level 1.



XGlite

As its name implies, “XGlite” is a simplified version of Yamaha’s high-quality XG tone generation format. Naturally, you can play back any XG song data using an XGlite tone generator. However, keep in mind that some songs may play back differently compared to the original data, due to the reduced set of control parameters and effects.



STYLE FILE (KB-291/KB-290)

The Style File Format is Yamaha’s original style file format which uses a unique conversion system to provide high-quality automatic accompaniment based on a wide range of chord types.



Stereo Sampled Piano

The instrument has a special Portable Grand Piano Voice—created by state-of-the-art stereo sampling technology and using Yamaha’s sophisticated AWM (Advanced Wave memory) tone generation system.



Touch Response

The Touch Response feature lets you control the volume of notes according to how strongly or softly you play the keys.



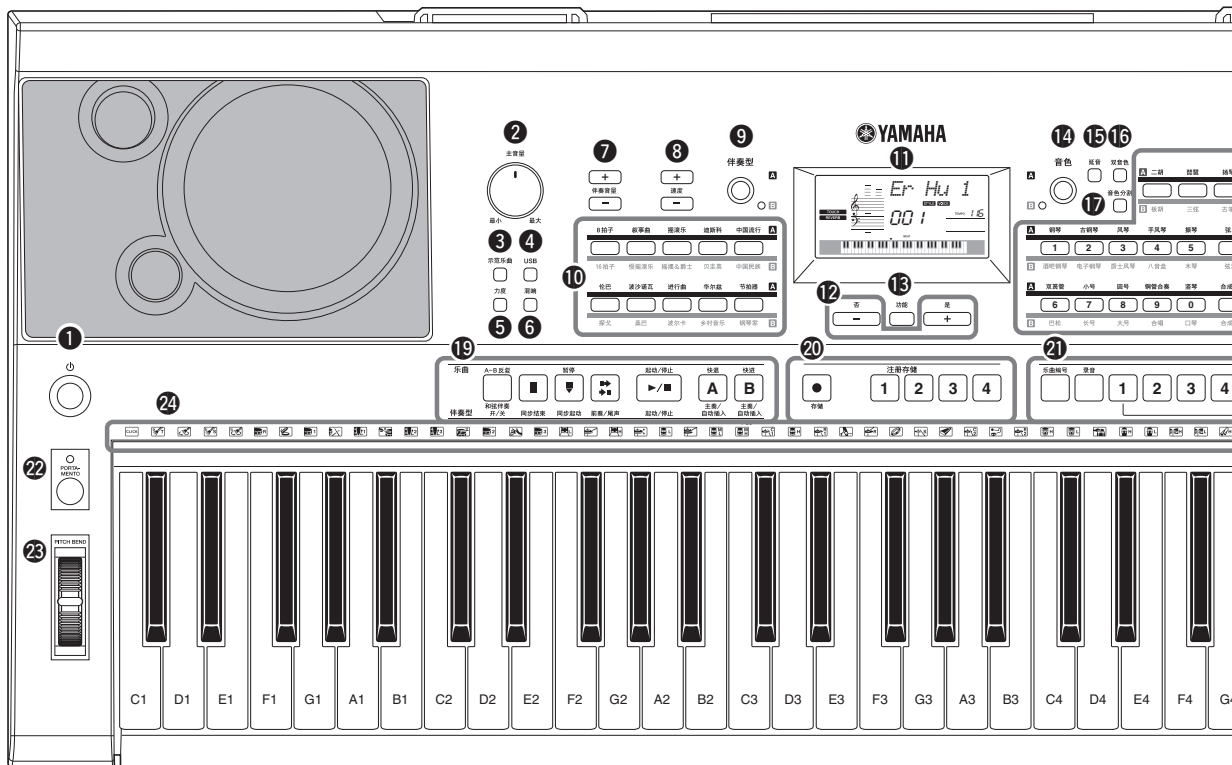
USB

USB is an abbreviation for Universal Serial Bus. It is a serial interface for connecting a computer with peripheral devices. It allows “hot swapping” (connecting peripheral devices while the power to the computer is on).

Panel Controls and Functions

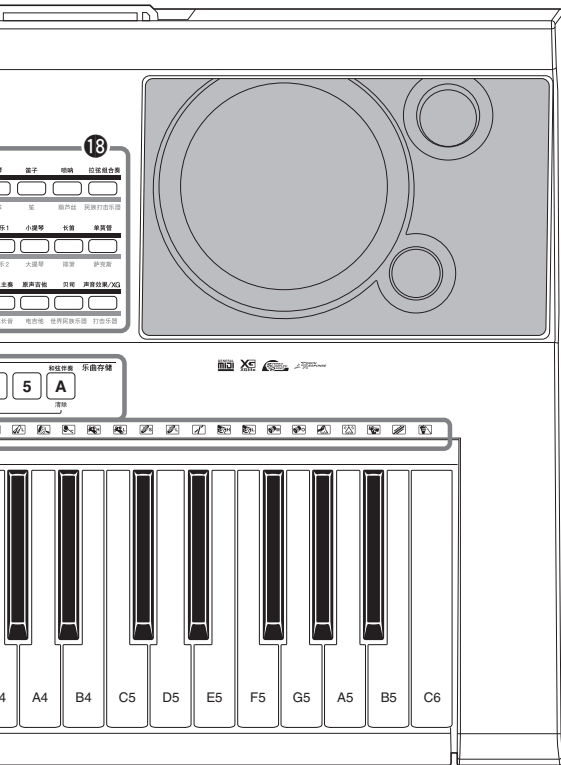
Front Panel

The illustrations are taken from the KB-291/KB-290.



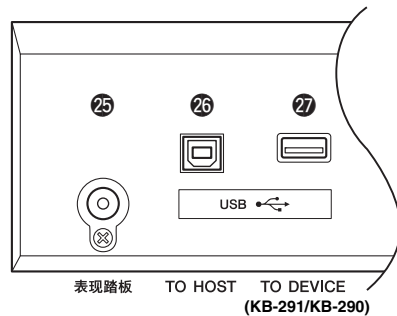
- 1** [⏻] (Standby/On) switch..... page 10
For turning the power on or to standby.
- 2** [MASTER VOLUME] control page 10
For adjusting the overall volume.
- 3** [DEMO] button..... page 11
For playing back the Demo Songs.
- 4** [USB] button (KB-291/KB-290) pages 28, 39
For accessing or controlling data in the USB storage device.
- 5** [TOUCH] button..... page 22
For adjusting the Touch Response.
- 6** [REVERB] button page 23
For adding Reverb effects to the sound.
- 7** STYLE VOL. [+], [-] buttons page 21
For adjusting the volume of Style playback.
- 8** TEMPO [+], [-] buttons pages 21, 30
For adjusting the tempo of Song or Style playback.
- 9** [STYLE] button page 16
For changing the Style category group.
- 10** STYLE category buttons page 16
For selecting a Style category.
- 11** Display page 8
This shows the current status of the instrument.

- 12** [-/NO], [+ /YES] buttons
For selecting items or setting values.
- 13** [FUNCTION] button..... page 31
For calling up the Function settings and making detailed changes.
- 14** [VOICE] button page 12
For changing the Voice category group.
- 15** [SUSTAIN] button page 24
For adding Sustain effects to the sound.
- 16** [DUAL] button page 14
For layering two Voices.
- 17** [SPLIT] button page 15
For playing different Voices on the left- and right-hand sections of the keyboard.
- 18** VOICE category buttons..... page 12
For selecting a Voice category.
- 19** SONG/STYLE control buttons pages 20, 29
For controlling Song or Style playback.
- 20** REGISTRATION MEMORY buttons page 36
For registering or calling up panel setups.
- 21** SONG MEMORY buttons page 25
For recording your performance.
- 22** [PORTAMENTO] button page 22
For adding Portamento effects to the sound.

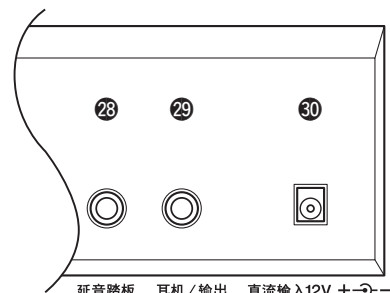


- 23 [PITCH BEND] wheel**page 23
For bending the pitch of the keyboard played sound up or down.
- 24 Drum Kit icons**page 13
These indicate drum instruments assigned to each key when the Standard Kit 1 is selected.

Rear Panel



表现踏板 TO HOST TO DEVICE (KB-291/KB-290)



延音踏板 耳机/输出 直流输入12V + -

- 25 [EXP. PEDAL] jack** page 10
For connecting an expression pedal.
- 26 USB [TO HOST] terminal** page 45
For connecting to a computer.
- 27 USB [TO DEVICE] terminal (KB-291/KB-290)**
..... page 38
For connecting a USB storage device.
- 28 [SUSTAIN] jack** page 10
For connecting a footswitch.
- 29 [PHONES/OUTPUT] jack** page 10
For connecting headphones, or external audio equipment.
- 30 DC IN jack** page 9
For connecting the power adaptor.

Display

The display shows all of the current basic settings for Songs, Styles and Voices. It also includes convenient indicators that show the on/off status for various functions.



Battery (page 9)

Indicates the remaining battery power when the power is on and batteries are being used.

USB USB Storage Device (page 38) (KB-291/KB-290)

Appears when a USB storage device is connected.

SPLIT

Split (page 15)

DUAL

Dual (page 14)

HARMONY

Harmony (page 24)

ARPEGGIO

Arpeggio (page 13) (KB-291/KB-290)

TOUCH

Touch (page 22)

REVERB

Reverb (page 23)

SUSTAIN

Sustain (page 24)

ACMP ON

Accompaniment On (page 17)

SYNC STOP

Synchro Stop (page 20)

Appears when the corresponding function is turned on.

Function (page 31)

Indicates the Function number when the Function settings are called up.

FUNCTION 003

Tempo and Measure

Indicates the current measure during playback of a Song or Style, and the currently set tempo value for the Song or Style.

TEMPO MEASURE 001

Chord (page 19)

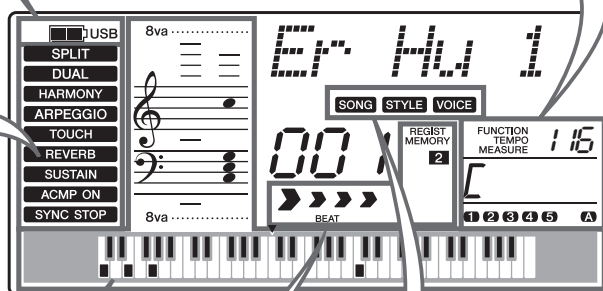
Indicates the name of the chord currently being played back, or the name of the chord being played on the keyboard.

[

Song Tracks (page 29)

Information related to the Song tracks is shown here.

1 2 3 4 5 A



Notation

Displays the melody and chord notes that you play on the keyboard.



NOTE

- Any notes occurring below or above the staff are indicated by "8va" in the notation.
- For a few specific chords, not all notes may be shown in the notation section of the display. This is due to space limitations in the display.

Keyboard

Indicates notes currently being played.



Beat

Indicates the beat of the current Song or Style with flashing arrows.



Registration Memory (page 36)

Indicates the currently selected Registration Memory number.

REGIST MEMORY 2

Song (page 28)

SONG

Appears when the instrument is in the Song mode. The SONG/STYLE control buttons can be used to control Song playback.

Style (page 16)

STYLE

Appears when the instrument is in the Style mode. The SONG/STYLE control buttons can be used to control Style playback.

Voice (page 12)

VOICE

Appears when a Main Voice name is displayed.

Setting Up

Power Requirements

Although the instrument will run either from an AC power adaptor or batteries, Yamaha recommends use of an AC power adaptor whenever possible.

Be sure to read “PRECAUTIONS” on pages 3 – 4 before supplying the power to the instrument.

Using an AC Power Adaptor

NOTICE

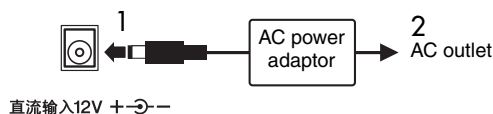
- Connecting or disconnecting the power adaptor with batteries installed may turn the power off, resulting in loss of data being recorded or transferred at the time.

- 1 Connect the AC power adaptor to the DC IN jack on the rear panel.

WARNING

- Use the specified adaptor (page 64) only. Using the wrong adaptor can result in damage to the instrument or overheating.

- 2 Plug the AC power adaptor into an AC outlet.



NOTE

- Connecting the AC power adaptor automatically supplies power from the adaptor and overrides battery power, even when batteries are installed.

Using Batteries

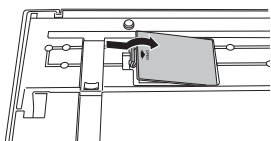
For battery operation this instrument requires six “AA” size alkaline (LR6), manganese (R6) batteries or nickel-metal hydride (Ni-MH) rechargeable batteries. It is recommended that you use alkaline batteries or rechargeable Ni-MH batteries, since manganese batteries drain power more quickly.

WARNING

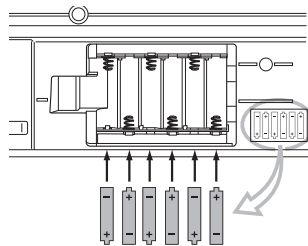
Follow the precautions below. Failure to do so might result in explosion, fire, overheating or battery fluid leakage.

- Use the specified battery type only.
- When using Ni-MH batteries, follow the instructions that came with the batteries. Use only the specified charger device when charging.

- 1 Make sure that the [⏻] (Standby/On) switch of the instrument is set to standby (the backlit display is off).
- 2 Turn the instrument upside-down on a soft cloth or cushion, then open the battery compartment cover located on the instrument’s bottom panel.



- 3 Insert the batteries, being careful to follow the polarity markings on the side of the compartment.



- 4 Replace the compartment cover, making sure that it locks firmly in place.

NOTICE

- Plug in the AC power adaptor when transferring data to and from the connected computer or USB storage device (KB-291/KB-290). The data can be corrupted if the batteries fail during the transfer.

NOTE

- When charging rechargeable batteries, use only the specified charger device. You cannot charge the batteries by using this instrument.

Battery Type Setting

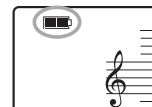
Depending on the battery type to be used, you may need to change the battery type setting on this instrument. To change the setting, first turn on the power to the instrument (page 10), then choose the battery type you would like to use. (See page 34.) Alkaline (and manganese) batteries are chosen by default. Make sure to check the battery type setting whenever you replace the batteries.




NOTICE

- Choosing the wrong battery type may cause the batteries to deteriorate or shorten the battery operating time. Make sure to set the correct battery type before using.

Remaining Battery Indication

When the power is on and batteries are being used, a battery icon indicating the remaining battery charge appears at the top left of the display.



-  : Indicates that the power will be turned off soon.
-  : Indicates that remaining power is insufficient for proper operation. Before the power runs out, replace all the batteries with new ones, or fully recharged ones (when using rechargeable types). Note that the instrument may not work properly, including unusually soft volume and poor sound quality when remaining power becomes low.
-  : Indicates that the remaining power is sufficient.

NOTE

- When the AC power adaptor is plugged in to the AC outlet, the battery icon does not appear even when batteries are inserted. In this case, the power is supplied from the AC power adaptor.

Connecting Headphones and External Audio Equipment



耳机 / 输出

You can connect the [PHONES/OUTPUT] jack on the rear panel to a set of headphones, keyboard amplifier, stereo system, mixer, tape recorder, or other line-level audio device to send the instrument's output signal to that device. The internal speakers are automatically shut off when a plug is inserted into this jack.

CAUTION

- Avoid listening with the headphones at high volume for long periods of time; doing so may not only result in ear fatigue, it may be damaging to your hearing.
- To prevent damage to the speakers, set the volume of the external devices to the minimum setting and turn off the power for all devices before connecting them. Failure to observe these precautions may result in electric shock or equipment damage. Also, with all devices set to minimum volume, gradually raise the volume controls while playing the instrument to set the desired listening level.

Connecting a Footswitch



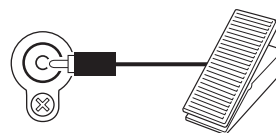
延音踏板

The Sustain function lets you produce a natural sustain as you play by pressing an optional footswitch. Plug the Yamaha FC4 or FC5 footswitch into the [SUSTAIN] jack on the rear panel and use it to switch Sustain on and off.

NOTE

- Make sure that the footswitch plug is properly connected to the [SUSTAIN] jack before turning on the power.
- Do not press the footswitch while turning the power on. Doing this changes the recognized polarity of the footswitch, resulting in reversed footswitch operation.
- When adding the Sustain effect by using the footswitch, the effect is applied to the Main and Dual Voices only. Split Voices are not affected.

Connecting the Expression Pedal

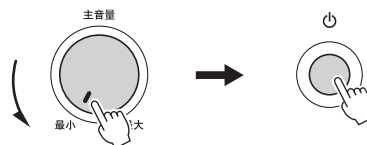


表现踏板

When the Expression pedal (included with KB-291/KB-290; optional for KB-191/KB-190) is connected to the [EXP. PEDAL] jack on the rear panel, you can control the volume of the keyboard sound by pressing the pedal. Pressing the pedal downward (with your toes) increases the volume, while pressing it back upward (with your heel) decreases the volume.

Turning the Power On

Turn down the volume by turning the [MASTER VOLUME] control to the left and press the [⏻] (Standby/On) switch to turn on the power. While playing the keyboard, adjust the volume level by using the [MASTER VOLUME] control. Pressing the [⏻] (Standby/On) switch again for a second turns the power to standby.

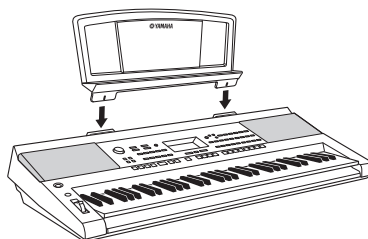


CAUTION

- When using a power adaptor, even when the power is in standby status, a small amount of electricity is still being consumed by the instrument. When you are not using the instrument for a long time, make sure to unplug the AC power adaptor from the wall AC outlet, and/or remove the batteries from the instrument.

Using the Music Rest

Insert the music rest into the slots as shown.

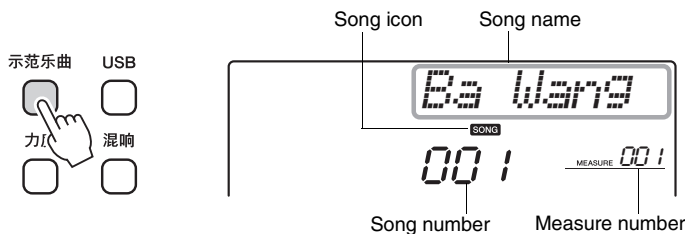


Listening to the Demo Songs

A variety of Demo Songs are provided that effectively showcase the sounds of this instrument.

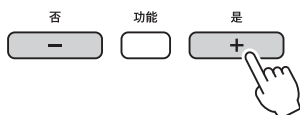
1 Press the [DEMO] button to start playback.

All Demo Songs will play back in sequence.



To change to another Demo Song:

Use the [-/NO]/[+/YES] buttons during playback.



NOTE 1

- To instantly jump to Song number 001, press the [-/NO] and [+/YES] buttons simultaneously.

2 Press the [DEMO] button again to stop playback.

You can also use the [START/STOP] button to stop playback.

Demo Song List (KB-291/KB-290)

No.	Song Name	No.	Song Name
001	Ba Wang	011	Für Elise
002	Shui Xiang Meng	012	Pastorale
003	Zhong guo fusion	013	The Entertainer
004	CAO YUAN CHUN YUN	014	Twinkle Twinkle Little Star
005	Qing Feng Shou	015	Ode to Joy
006	HUA ER YU SHAO NIAN	016	Pizzicato Polka
007	KUAI LE DE LUO SUO	017	Méditation (Thais)
008	BAI NIAN	018	Green Sleeves
009	JIN SHE KUANG WU	019	Little Brown Jug
010	SONG WO YI ZHI MEI GUI HUA	020	London Bridge

Demo Song List (KB-191/KB-190)

No.	Song Name	No.	Song Name
001	Ba Wang	009	Pastorale
002	Shui Xiang Meng	010	The Entertainer
003	Zhong guo fusion	011	Twinkle Twinkle Little Star
004	CAO YUAN CHUN YUN	012	Ode to Joy
005	Qing Feng Shou	013	Pizzicato Polka
006	HUA ER YU SHAO NIAN	014	Méditation (Thais)
007	KUAI LE DE LUO SUO	015	Greensleeves
008	Für Elise		

Playing a Variety of Instrument Voices

This instrument features a variety of high-quality, realistic Voices including piano, strings, guitar, Chinese instruments and many others. The Voice List is provided on page 48.

Selecting and Playing a Voice

- 1 Press the [VOICE] button to select the group (A or B) to which your desired Voice category belongs.

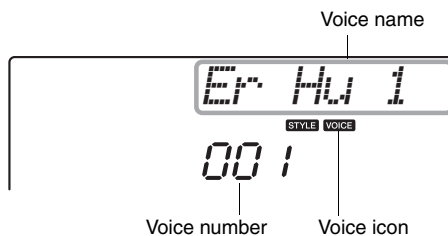
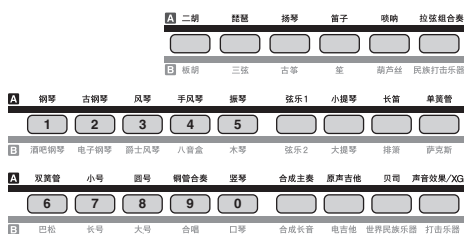
Group A Voice categories are printed above each VOICE category buttons, and Group B categories are printed below. The button toggles between the two groups; when the lamp is lit, the Voice in Group B can be selected.



- 2 Press one of the VOICE category buttons to select the desired Voice category.

NOTE 1

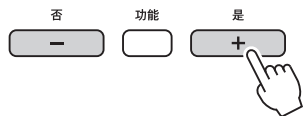
- The last selected Voice in the selected category will be called up when the VOICE category button is pressed.



- 3 Use the [-/NO]/[+/YES] buttons to select the desired Voice. Only the numbers in the current Voice category can be selected.

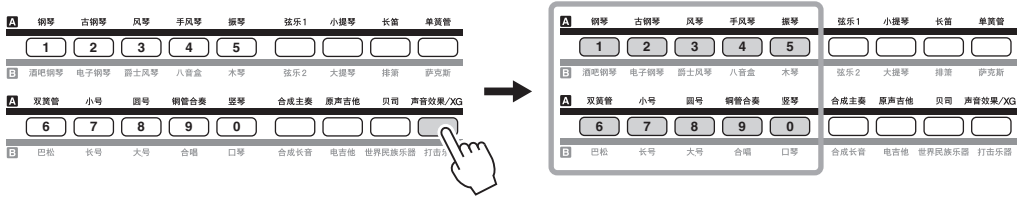
NOTE 1

- To recall the first Voice in the current category, press the [-/NO] and [+/YES] buttons simultaneously.



To select a Voice by entering the number directly

Hold the [SE/XG] button (located at the bottom right of the VOICE category buttons) until "VoiceNo. on" appears briefly, then use the appropriate VOICE category buttons (with number markings) to enter the desired three-digit number. The number for each Voice can be found in the Voice List (page 48). After choosing a number, you can change to the previous or next number by using the [-/NO]/[+/YES] buttons. All Voice numbers appear in sequence, regardless of their categories.



To exit from number entering mode, press the [VOICE] button. (“VoiceNo. oFF” appears briefly.)

4 Play the keyboard.

Playing Drum Kits and SE Kits

The Voices in the CHINA KIT and DRUM KIT categories as well as some in the SE/XG category are collections of drum and percussion instruments, or sound effects. Various sounds are assigned to individual keys, and each key produces a different sound when played. For details, refer to the Drum/Key Assignment List on page 54.

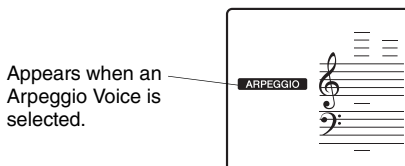
NOTE 1

- If you would like to play along with a metronome click, play back one of the Styles in the METRONOME category (page 16).

Playing Arpeggio Voices (KB-291/KB-290)

When you select a Voice number between 210 and 219 for the Main Voice, the Arpeggio function will automatically be turned on. The Arpeggio function lets you create arpeggios (broken chords) by simply playing or holding down the notes of the chord on the keyboard. For example, you could play only the notes of a triad—the root, third, and fifth—and the Arpeggio function will automatically create arpeggio-type phrases according to the notes you played. This function can be used to add dynamic variations to your performance.

Try playing a note or notes on the keyboard to trigger Arpeggio playback.



NOTE 1

- The Arpeggio related settings such as Arpeggio Type (page 61) can be changed via the [FUNCTION] button. (See page 33, Function No. 029 – 032.)
- The Arpeggio function will be turned off once a Demo Song is played or the Harmony effect is turned on. To turn on the Arpeggio, you need to select an Arpeggio Voice again.
- When Split is turned on, the Arpeggio effect is applied to the Split Voice only. Main and Dual Voices are not affected.

One Touch Setting

Sometimes choosing the ideal Voice to play with a Style (page 16) can be confusing. The One Touch Setting feature automatically calls up an optimum Voice for playing in the selected Style. To activate this feature, simply select Voice number “000” (by entering the number directly).

NOTE 1

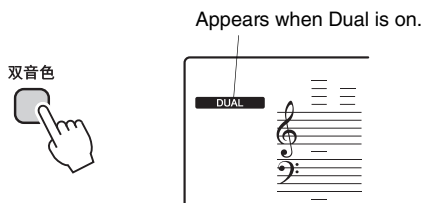
- The One Touch Setting function is available only for the preset Styles.

Layering Two Voices (Dual)

You can play two Voices in a layer. The Voice you selected on page 12 is called the Main Voice, and you can play a second Voice, called the Dual Voice.



Pressing the [DUAL] button turns Dual on or off.



Changing the Dual Voice

When you select a Main Voice, a suitable Dual Voice for the Main Voice is automatically selected, but you can manually select a different Dual Voice.

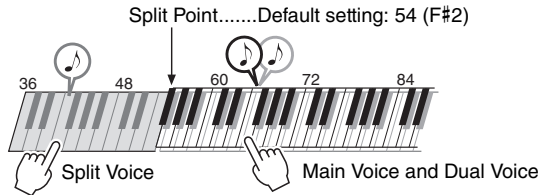
- 1 Simultaneously press the [DUAL] button and one of the VOICE category buttons to select the desired Voice category.**
“D. Voice” appears briefly, allowing you to select a Dual Voice. The “VOICE” icon is not shown while Dual Voice is being selected.
- 2 Use the [-/NO]/[+/YES] buttons to select the desired Voice.**
- 3 Press the [VOICE] button to exit from the Dual Voice setting display.**
The Main Voice name and the “VOICE” icon will appear.

NOTE

- Changing the Main Voice resets the Dual Voice to the default.
- The Dual Voice related settings can be changed via the [FUNCTION] button. (See page 32, Function No. 012 – 016.)

Playing Different Voices with the Left and Right Hands (Split)

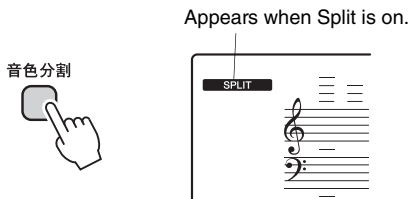
You can play different Voices to the left and right of the keyboard “Split Point.” The Main and Dual Voices can be played to the right of the Split Point, while the Voice played to the left of the Split Point is called the “Split Voice.”



NOTE 1

- The Split Point can be changed. (See page 32, Function No. 018.)

Pressing the [SPLIT] button turns Split on or off.



Changing the Split Voice

- 1 Simultaneously press the [SPLIT] button and one of the VOICE category buttons to select the desired Voice category.

“S. Voice” appears briefly, allowing you to select a Split Voice. The “VOICE” icon is not shown while a Split Voice is being selected.

- 2 Use the [-/NO]/[+/YES] buttons to select the desired Voice.

- 3 Press the [VOICE] button to exit from the Split Voice setting display.

The Main Voice name and the “VOICE” icon will appear.

NOTE 1

- The Split Voice related settings can be changed via the [FUNCTION] button. (See page 32, Function No. 017 – 022.)

Changing the Split Point

The Split Point can be changed via the [FUNCTION] button. (See page 32, Function No. 018.)

Playing Along with Accompaniment

The instrument features a variety of accompaniment and rhythmic backing patterns (called Styles) in various musical genres including pop, ethnic, and more. This function lets you automatically recreate the sound of a full band or orchestra—even if you’re playing by yourself. The Style List is provided on page 59.

Playing Only the Rhythm Part of a Style

Try playing the melody along with only the rhythm part played back via the Drum Kit Voice. You can sound different rhythms for each Style.

NOTE

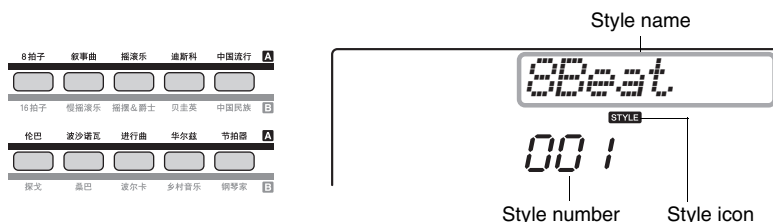
- The rhythm does not sound for some Styles. When you want to use one of these Styles, follow the instructions on page 17.

1 Press the [STYLE] button to select the group (A or B) to which your desired Style category belongs.

Group A Style categories are printed above each STYLE category buttons, and Group B categories are printed below. The button toggles between the two groups; when the lamp is lit, the Style in Group B can be selected.



2 Press one of the STYLE category buttons to select the desired Style category.



NOTE

- The last selected Style in the selected category will be called up when the STYLE category button is pressed.
- (KB-291/KB-290) You can also select Styles created on another instrument. To do this, load the Style file to this instrument (page 43). The loaded Style will be numbered 191 and can be selected by entering the number directly (in step 3 below).

3 Use the [-/NO]/[+/YES] buttons to select the desired Style.

Only the numbers in the current Style category can be selected.

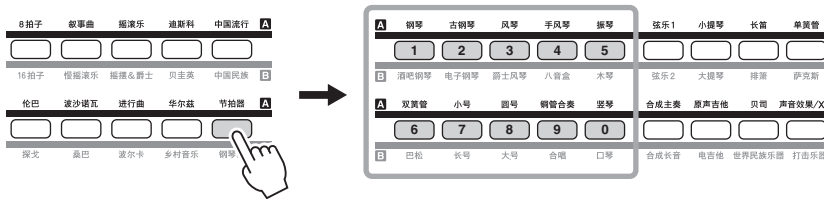


NOTE

- To recall the first Style in the current category, press the [-/NO] and [+/YES] buttons simultaneously.

To select a Style by entering the number directly

Hold the [METRONOME] button (located at the bottom right of the STYLE category buttons) until “StyleNo. on” appears briefly, then use the appropriate VOICE category buttons (with number markings) to enter the desired three-digit number. The number for each Style can be found in the Style List (page 59). In case of the KB-291/KB-290, the Style loaded from the USB storage device or the internal memory of the instrument (page 43) is automatically numbered 191. After choosing a number, you can select the previous or next number by using the [-/NO]/[+/YES] buttons. All Style numbers appear in sequence regardless of their categories.



To exit from the number entering mode, press the [STYLE] button. (“StyleNo. oFF” appears briefly.)

4 Press the [START/STOP] button to start playing back the rhythm of the Style.

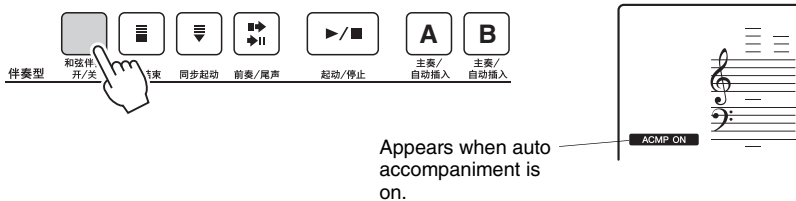


5 Press the [START/STOP] button again to stop playback.

Playing Along with Auto Accompaniment

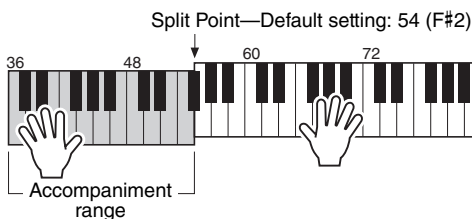
The Style feature lets you produce automatic accompaniment playback simply by playing chords with your left hand.

- 1 Select the desired Style (steps 1– 3 on page 16).
- 2 Press the [ACMP ON/OFF] button to turn Auto Accompaniment on.



When auto accompaniment is on

The area of the keyboard to the left of the Split Point becomes the “accompaniment range” and is used only for specifying the accompaniment chords.



NOTE 1

- The Split Point can be changed. (See page 32, Function No. 018.)

3 Press the [SYNC START] button to turn Synchro Start on.

When Synchro Start is on, you can start the Style by playing any key in the accompaniment range of the keyboard.



4 Play a chord in the accompaniment range to start playback.

Try playing chords with your left hand and play a melody with your right hand.

5 Press the [START/STOP] button to stop Style playback.



NOTE

• Pressing the [START/STOP] button starts only the rhythm part of the selected Style. The bass and chords will begin playing as soon as you play a key in the accompaniment range of the keyboard.

Playing only chord sounds

When the [ACMP ON/OFF] button is turned on (the “ACMP ON” icon is shown in the display) and Synchro Start is off, playing chords in the left-hand accompaniment range of the keyboard can produce the sounds of the chords without Style playback. This function can be used to add harmony to the melody played along with in the right-hand range of the keyboard.



























Changing the Split Point

The Split Point can be changed via the [FUNCTION] button. (See page 32, Function No. 018.)

Chord Chart

For users who are unfamiliar with playing chords, this chart conveniently shows common chords for your reference. Since there are many useful chords and many different ways to use them musically, refer to commercially available chord books for further details.

★ Indicates the root note.

Major	Minor	Seventh	Minor Seventh	Major Seventh
C 	Cm 	C7 	Cm7 	CM7 
D 	Dm 	D7 	Dm7 	DM7 
E 	Em 	E7 	Em7 	EM7 
F 	Fm 	F7 	Fm7 	FM7 
G 	Gm 	G7 	Gm7 	GM7 
A 	Am 	A7 	Am7 	AM7 
B 	Bm 	B7 	Bm7 	BM7 

- Inversions can be used as well as “root” position—with the following exceptions: m7, m7^b5, 6, m6, sus4, aug, dim7, 7^b5, 6(9), sus2
- Inversions of the 7sus4 and m7(11) chords are not recognized if any notes are omitted.
- Sus2 chords are indicated by the root name only.
- If you play a chord which does not exist, the name of chord is not shown in the display, and the Style plays back only rhythm and bass.

Easy Chords

This method lets you easily play chords in the accompaniment range of the keyboard using only one, two, or three fingers.

For root “C”



To play a major chord
Press the root note (★) of the chord.



To play a minor chord
Press the root note together with the nearest black key to the left of it.



To play a seventh chord
Press the root note together with the nearest white key to the left of it.



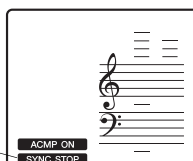
To play a minor seventh chord
Press the root note together with the nearest white and black keys to the left of it (three keys altogether).

Controlling Style Playback

Synchro Stop

Turns the Synchro Stop feature on or off when the [ACMP ON/OFF] is turned on (the "ACMP ON" icon is shown in the display). When Synchro Stop is turned on, accompaniment plays back only while you hold down chords in the accompaniment range of the keyboard, and it stops when you release the keys.

Appears when Synchro Stop is on.



Synchro Start

Sets the Synchro Start feature to standby or cancels it. When Synchro Start in standby (the Beat indicator flashes in the display), you can start playback as follows:

- When [ACMP ON/OFF] is off, pressing any key starts playback of the rhythm part.
- When [ACMP ON/OFF] is on, playing a chord in the accompaniment range starts playback of all the parts.

Pressing this button during Style playback stops playback and sets Synchro Start to standby.

Start and Stop

Starts and stops playback of the Style.



Intro and Ending

- **While playback is stopped:**
Pressing this button before playing back a Style adds a short introduction when starting. When the Intro Section finishes, Style playback automatically shifts to the Main section.
- **During playback:**
Pressing this button shifts playback to the Ending section, then stops playback automatically when the Ending has played all the way through. You can have the Ending gradually slow down (ritardando) by pressing this button again while the Ending is playing back.

Main A/B and Fill-in

- **While playback is stopped:**
Pressing these buttons selects either the Main A or B section to start.
- **During playback:**
Pressing these buttons switches playback between the Main A and B sections, automatically adding a fill-in pattern to smoothly lead into the next section. If you want to add a fill-in but keep the same Main section playing (without switching), press the button corresponding to that same section. To hear the full fill-in, press this button right on the first beat of the intended measure (or after the last beat of the previous measure).

Recommended method for using sections

■ Setup

1. Select the desired Style (steps 1–3 on page 16).
2. Press the [ACMP ON/OFF] button to turn accompaniment on.
3. Press the [INTRO/ENDING] button.
4. Press the [MAIN/AUTO FILL A] or [MAIN/AUTO FILL B] button to select Main A or B.
5. Press the [SYNC START] button to turn Sync Start on.

You're now ready to play the Intro.

■ Start playing

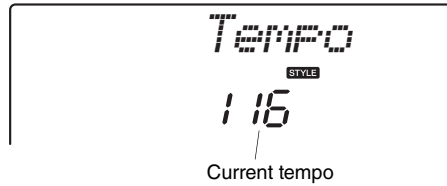
6. As soon as you play a chord with your left hand, the Intro of the selected Style starts.
7. Press the [MAIN/AUTO FILL A] or [MAIN/AUTO FILL B] button to switch the Main sections, if desired.

■ Ending

8. Press the [INTRO/ENDING] button to add an Ending section.
An Ending section will play and then Style playback will stop automatically.

Changing the Style Tempo

Use the TEMPO [+] and [-] buttons to adjust the tempo from 11 to 280 beats per minute.

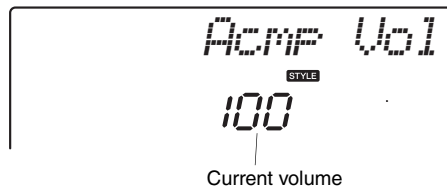


NOTE 1

- To reset the tempo to the default value, press the TEMPO [+] and [-] buttons simultaneously.

Adjusting the Style Volume

Use the STYLE VOL. [+] and [-] buttons to adjust the Style volume.



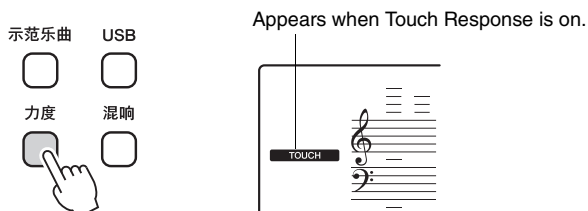
NOTE 1

- To reset the volume to the default value, press the STYLE VOL. [+] and [-] buttons simultaneously.

Handy Performance Features

Turning Touch Response On/Off

The Touch Response feature lets you control the volume of notes according to how strongly or softly you play the keys. Pressing the [TOUCH] button alternately turns Touch Response on and off. When this is off, the same volume is produced no matter how strongly or softly you play the keyboard.



Adjusting Touch Response Sensitivity

Touch Response sensitivity, or how the sound volume responds to the playing strength, can be set via the [FUNCTION] button. (See page 32, Function No. 007.)

Transposing the Pitch in Semitones

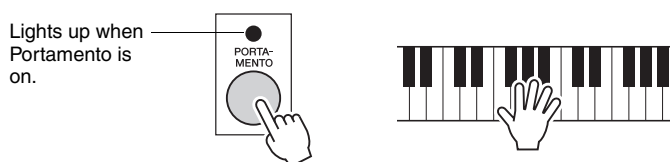
The overall pitch of the instrument can be shifted up or down in semitones to facilitate playing in difficult key signatures and match the pitch of the keyboard to the range of a singer or other instruments. For example, if “5” is selected, playing key C produces pitch F, letting you play a song of F major as though it were in C major. You can transpose the instrument via the [FUNCTION] button. (See page 31, Function No. 003.)

Fine Tuning the Pitch

You can fine tune the pitch of the entire instrument in approximately 0.2 Hz steps. This lets you match the keyboard pitch finely to that of other instruments or CD music. You can tune the instrument via the [FUNCTION] button. (See page 31, Function No. 004.)

Turning Portamento On/Off

The Portamento effect lets you create a smooth pitch glide between successively played notes. The effect is produced when notes are played legato style (i.e., a note is played while the preceding note is still held). Pressing the [PORTAMENTO] button turns the Portamento effect on/off.

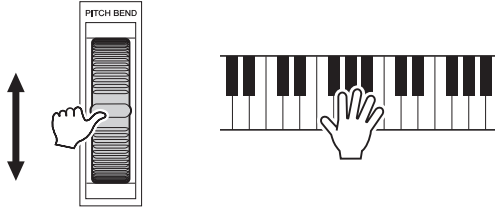


Changing Portamento Time

You can change the portamento time via the [FUNCTION] button. (See page 31, Function No. 006.)

Using the Pitch Bend Wheel

The [PITCH BEND] wheel can be used to add smooth pitch variations to notes you play on the keyboard. Roll the wheel upward to raise the pitch, or downward to lower the pitch. When you release the wheel it will automatically return to center position and the keyboard pitch will return to normal.

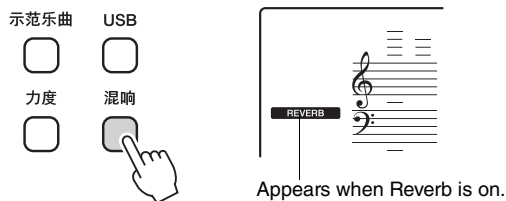


Adjusting the Pitch Bend Range

The pitch bend range can be set via the [FUNCTION] button. (See page 31, Function No. 005.)

Adding Reverb

The Reverb effect lets you play with a rich concert hall type ambience. Pressing the [REVERB] button alternately turns Reverb on and off.



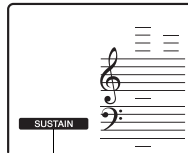
Changing the Reverb Type

When you select a Style or Song, the optimum Reverb type for the Voice used is automatically selected. If necessary, you can select a different Reverb type via the [FUNCTION] button. (See page 33, Function No. 023.)

Adding Sustain

The Sustain effect adds a slow, natural decay to the Voices. It is particularly effective on piano and stringed instrument Voices, making the sound richer and more authentic on slowly played passages.

Pressing the [SUSTAIN] button alternately turns Sustain on and off. When an optional footswitch is connected (page 10), the Sustain effect is controlled by the footswitch.



Appears when the [SUSTAIN] button is turned on.

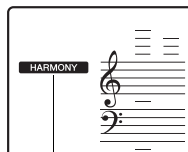
Adding Chorus

The Chorus effect creates a thick sound that is similar to many of the same Voices being played in unison. When you select a Style or Song, the optimum Chorus type for the Voice used is automatically selected. If necessary, you can select a different Chorus type or turn it off via the [FUNCTION] button. (See page 33, Function No. 025.)

Adding Harmony

A variety of Harmony effects are available to enhance your performance. The Harmony effect is added to the Main Voice you play on the keyboard. The Harmony Type List appears on page 60.

The Harmony on/off setting and the other Harmony related settings can be changed via the [FUNCTION] button. (See page 33, Function No. 026 – 028.)



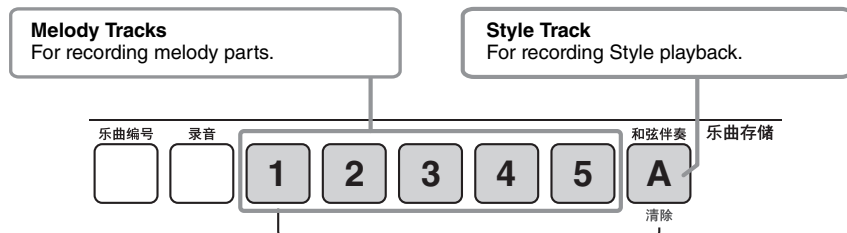
Appears when Harmony is on.

Recording Your Performance

You can record up to five of your performances and store them as User Songs 101 – 105. Each User Song features up to a total of six tracks for recording: five melody tracks and one Style track. Each track can be recorded individually.

NOTE

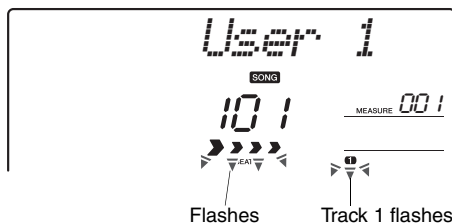
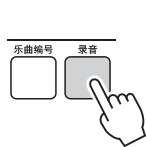
- The recorded performance can be saved to a USB storage device (KB-291/KB-290); page 42 or a computer (page 45).
- Split Voices cannot be recorded.
- Style number, Style volume and all settings via the [FUNCTION] button (page 31) cannot be changed during recording.



Simple Recording of a Song

1 Press the [REC] button.

The lowest User Song number available for recording (which does not contain any data) is displayed and Track “1” will flash. If you want to record to another Song number, select the desired Song number by using the [-/NO]/[+/YES] buttons.



NOTICE

- If all User Songs (Song numbers 101 – 105) contain recorded data, User Song 101 will automatically be selected. If you record your performance to a Song that contains data, the previous data will be overwritten and erased by the new data.

NOTE

- If you want to record a Style at the same time, turn the [ACMP ON/OFF] on before pressing the [REC] button. When you press the [REC] button, Track “A” will flash in addition to “1”.

To cancel recording, press the [REC] button again.

2 Recording will start when you play the keyboard.

You can also start recording by pressing the [START/STOP] button.

3 Stop recording by pressing the [START/STOP] button or [REC] button.

A “Writing!” message is shown and the data will be saved.



NOTICE

- Be careful not to shut off the power to the instrument when a “Writing!” message is shown in the display. Doing so may result in a loss of data.

To playback the newly recorded performance, press the [START/STOP] button.

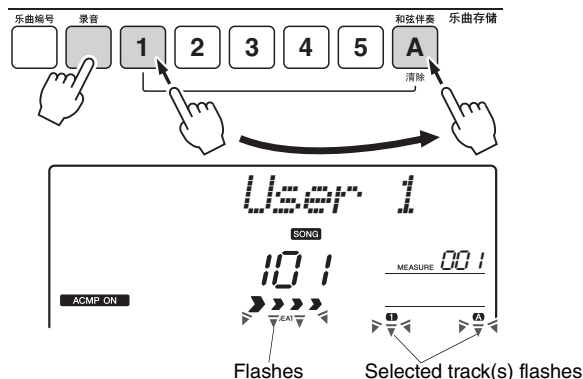
Recording Specific Tracks

1 Select a User Song number for recording.

Press the [SONG NO.] button, then select the desired Song number by using the [-/NO]/[+/YES] buttons.

2 Select the track(s) you want to record.

Press one of the melody track buttons [1] – [5] you want to record to while holding down the [REC] button. If you want to record a Style at the same time, press the Style track button [A] while holding down the [REC] button.



To cancel recording to the track, press the selected track button again.

3 Recording will start when you play the keyboard.

You can also start recording by pressing the [START/STOP] button.

4 Stop recording by pressing the [START/STOP] button or [REC] button.

A “Writing!” message is shown and the data will be saved.



To playback the newly recorded performance, press the [START/STOP] button.

To Record Other Tracks

Repeat steps 2 – 4 to record any of the remaining tracks. By selecting an unrecorded track—with track buttons [1]–[5], [A]—you can record the new track while listening to previously recorded tracks (the playback tracks will appear in the display). You can also mute previously recorded tracks (the muted tracks will not appear in the display) while recording new tracks.

To Re-record a Track

Simply select the track you want to re-record for recording. The new material will overwrite the previous data.

NOTICE

- If you record to a track that contains previously recorded data, the previous data will be overwritten and lost.

NOTE 1

- You can choose whether previously recorded tracks will play back while you are recording or playing back other tracks (page 29).
- When the Style Track [A] is selected for recording, Auto Accompaniment is automatically turned on (the “ACMP ON” icon appears in the display). Auto Accompaniment cannot be turned on or off while recording is in progress.
- If Auto Accompaniment is turned on and Style Track [A] has no data, Style Track [A] will automatically be selected for recording when a melody track is selected. If you only want to record a melody track, be sure to turn Style Track [A] off.

NOTICE

- Be careful not to shut off the power to the instrument when a “Writing!” message is shown in the display. Doing so may result in a loss of data.

NOTE 1

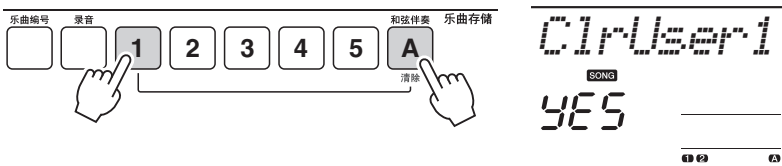
- If you record a melody along with a metronome sound (which is one of the Styles), you may want to delete the metronome sound from the data once you’ve finished recording. To do this, clear Style track [A] by executing the Track Clear operation (page 27).

Deleting User Songs

Recorded User Songs can be deleted by one of two methods. One is to delete an entire User Song (Song Clear), the other is to delete a specified track from a User Song (Track Clear).

Song Clear—Deleting User Songs

- Select the number of the User Song you want to clear.**
Press the [SONG NO.] button, then select the desired Song number by using the [-/NO]/[+/YES] buttons.
- Simultaneously press and hold the SONG MEMORY [1] and [A] buttons for longer than a second.**
A confirmation message will appear on the display.



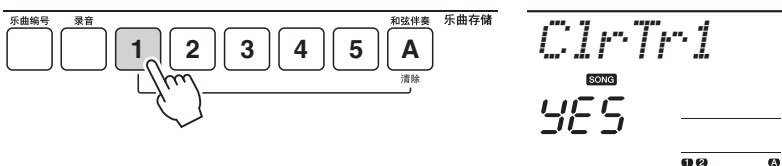
- Press the [+/YES] button.**
A “Sure?” confirmation message will appear on the display. You can cancel the clear operation by pressing the [-/NO] button.
- Press the [+/YES] button again to clear the Song.**
A “Writing!” message will appear in the display while the Song is being cleared.

NOTICE

- Be careful not to shut off the power to the instrument when a “Writing!” message is shown in the display. Doing so may result in a loss of data.

Track Clear—Deleting a Specified Track from a User Song

- Select the number of the User Song you want to clear.**
Press the [SONG NO.] button, then select the desired Song number by using the [-/NO]/[+/YES] buttons.
- Press and hold one of the track buttons ([1]-[5], [A]; corresponding to the track you want to clear) for longer than a second.**
A confirmation message will appear on the display.



- Press the [+/YES] button.**
A “Sure?” confirmation message will appear on the display. You can cancel the clear operation by pressing the [-/NO] button.
- Press the [+/YES] button again to clear the track.**
A “Writing!” message will appear in the display while the track is being cleared.

NOTICE

- Be careful not to shut off the power to the instrument when a “Writing!” message is shown in the display. Doing so may result in a loss of data.

Playing Back Songs

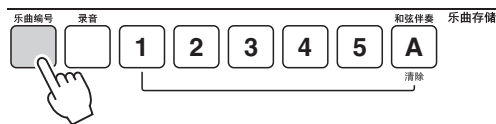
In this section, you'll see how to play back Songs you recorded to this instrument (page 25), Songs transferred from a computer (page 46), or Songs saved to a USB storage device (KB-291/KB-290) (page 42).

Selecting and Playing a Song

1 Call up the memory where the desired Songs are stored.

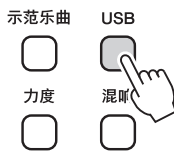
• **When playing back a Song in the instrument:**

Press the [SONG NO.] button.



• **When playing back a Song in the USB storage device: (KB-291/KB-290)**

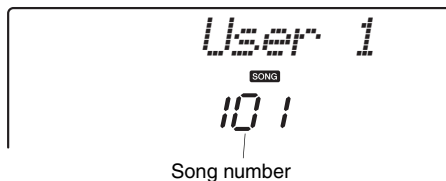
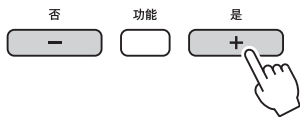
Make sure to connect the USB storage device to the USB [TO DEVICE] terminal, then press the [USB] button.



NOTE 1

- When connecting a USB storage device, read "Connecting a USB Storage Device" (page 38) beforehand.

2 Use the [-/NO]/[+/YES] buttons to select the desired Song number.



NOTE 1

- To instantly jump to Song number 101, press the [-/NO] and [+/YES] buttons simultaneously.

Song Types (KB-291/KB-290)

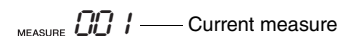
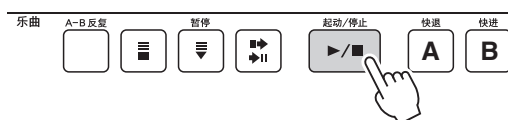
Song No.	Description
101—105	User Songs recorded to this instrument (page 25).
201—299	Songs transferred from a computer (page 46).
301—700	Songs saved to a connected USB storage device (page 42).

Song Types (KB-191/KB-190)

Song No.	Description
101—105	User Songs recorded to this instrument (page 25).
201—456	Songs transferred from a computer (page 46).

3 Press the [START/STOP] button to start playback.

The current measure will be shown on the display during playback.



4 Press the [START/STOP] button again to stop playback.

Controlling Song Playback

Song Pause, Rewind, and Fast Forward

Pause

Press this button to pause playback. Press again to resume playback from the point at which it was stopped.

Fast Forward

Press and hold this button to rapidly skip ahead to a later point in the Song.



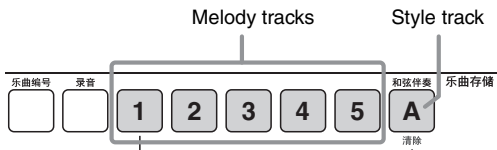
Rewind

Press and hold this button to rapidly return to an earlier point in the Song.

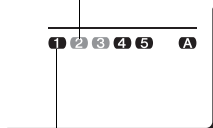
Muting Song Tracks

A Song is made up of several tracks. You can mute individual tracks and play the muted part on the keyboard yourself, or simply mute tracks other than the ones you want to listen to.

To mute a track, press the appropriate track button (TRACK [1]–[5], [A]). Press the same button a second time to cancel track muting.



Unlit: Track is muted or contains no data



Lit: Track will playback.

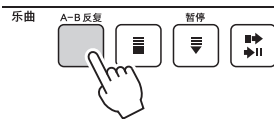
Repeat Playback

You can specify a section of a Song – with “A” as the start point and “B” as the end – for repeat playback. This function is called “A-B repeat” and is convenient for practicing difficult phrases repeatedly. The track muting function (see the previous section) can also be used at the same time.

NOTE 1

- The repeat start and end points can be specified in one-measure increments.

- 1 Start playback of a Song and press the [A-B REPEAT] button at the beginning (A point) of the section you want to repeat.

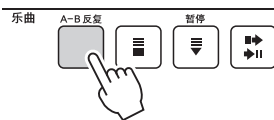


NOTE 1

- To set the A point at the beginning of the Song, press the [A-B REPEAT] button before starting playback.

- 2 Press the [A-B REPEAT] button again at the end (B point) of the section you want to repeat.

After a lead-in count, the specified A-B section of the Song will play repeatedly.



NOTE 1

- To set the B point at the end of the Song, set the A point first, then wait until playback reaches to the end of the Song without pressing the [A-B REPEAT] button. This automatically sets the B point to the end of the Song.

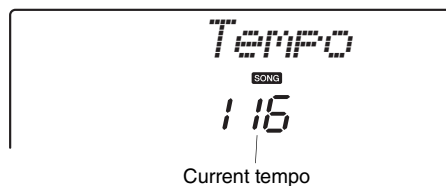
- 3 Press the [START/STOP] button to stop playback.

- 4 To cancel the A and B points, press the [A-B REPEAT] button again.

The points can also be canceled by selecting a different Song or by using another function.

Changing the Song Tempo

Use the TEMPO [+] and [-] buttons to adjust the tempo from 11 to 280 beats per minute.



NOTE 1

- To reset the tempo to the default value, press the TEMPO [+] and [-] buttons simultaneously.

Adjusting the Song Volume

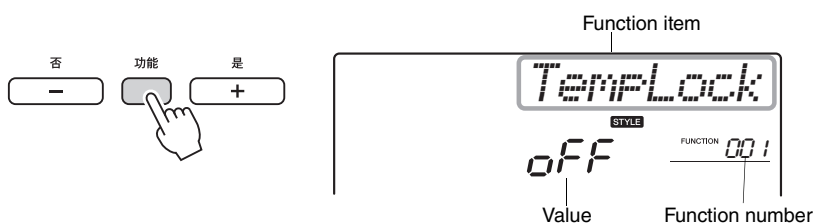
The Song volume can be changed via the [FUNCTION] button. (See page 31, Function No. 002.)

Function Settings

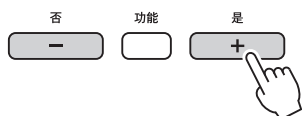
The [FUNCTION] button gives you access to a variety of operations related to adjusting or enhancing the sound. For more about the available Functions, see the following Function List.

1 Press the [FUNCTION] button several times until the desired item appears.

Each time the [FUNCTION] button is pressed, the Function number increases one by one. You can also decrease the Function number by one by holding down the [FUNCTION] button and briefly pressing the [-/NO] button.



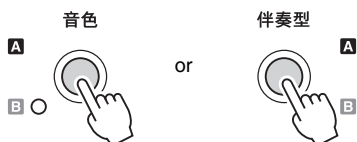
2 Set the value by using the [-/NO]/[+/YES] buttons.



NOTE 1

- None of the Functions can be set during recording or Demo Song playback.
- The default setting of a selected Function can be instantly recalled by simultaneously pressing the [-/NO] and [+ /YES] buttons.

3 Press the [VOICE] or [STYLE] button to exit from the Function settings.



Function List

No.		Function	Display	Setting Range	Default Setting	Description
KB-291/ KB-290	KB-191/ KB-190					
Overall						
001	001	Tempo Lock	<i>TempLock</i>	ON/OFF	OFF	Determines whether playback tempo changes or not when you change Styles. • ON: The previous tempo setting is maintained. • OFF: The tempo changes to that of the default tempo for the selected Style.
002	002	Song Volume	<i>SongVol</i>	000 – 127	100	Determines the volume of Song playback. This can be changed only when the "SONG" icon is shown in the display.
003	003	Transpose	<i>Transpos</i>	-12 – 00 – 12	00	Determines the pitch of the instrument in semitone increments. This is not applied to the Drum Kit or SE Kit Voices (page 54).
004	004	Tuning	<i>Tuning</i>	427.0Hz – 453.0Hz	440.0Hz (=A3)	Determines the pitch of the instrument in approximately 0.2 Hz increments. This is not applied to the Drum Kit or SE Kit Voices (page 54).
005	005	Pitch Bend Range	<i>PBRange</i>	01 – 12	02	Determines the pitch bend range in semitone increments.
006	006	Portamento Time	<i>PortTime</i>	000 – 127	64	Determines the portamento time (pitch transition time). Shortcut: Holding the [PORTAMENTO] button for longer than a second jumps to this display.

Function Settings

No.		Function	Display	Setting Range	Default Setting	Description
KB-291/ KB-290	KB-191/ KB-190					
007	007	Touch Response Sensitivity	<i>TouchSns</i>	1 (Soft)/ 2 (Medium)/ 3 (Hard)	2 (Medium)	Available only when Touch Response is on. The higher the value, the more strength needed in playing the keys to produce greater volume. Shortcut: Holding the [TOUCH] button for longer than a second jumps to this display.
Main Voice						
008	008	Main Voice Volume	<i>M. Volume</i>	000 – 127	Different for each Voice	Determines the volume of the Main Voice played on the keyboard.
009	009	Main Voice Octave	<i>M. Octave</i>	-2 – 0 – 2	Different for each Voice	Determines the pitch of the Main Voice played on the keyboard in octave increments.
010	010	Main Voice Reverb Level	<i>M. Reverb</i>	000 – 127	Different for each Voice	When the Reverb effect is turned on, this determines the Reverb depth of the Main Voice played on the keyboard.
011	011	Main Voice Chorus Level	<i>M. Chorus</i>	000 – 127	Different for each Voice	When the Chorus effect is turned on, this determines the Chorus depth of the Main Voice played on the keyboard.
Dual Voice						
012	012	Dual Voice	<i>D. Voice</i>	001 – 697 (KB-291/KB-290) 001 – 512 (KB-191/KB-190)	Different for each Voice	Selects the Dual Voice. Press one of the VOICE category buttons to select the desired category, then select the Voice by using the [-/NO]/[+YES] buttons. The Voice category group A or B cannot be changed; the Main Voice's group is always maintained. Shortcut: Holding the [DUAL] button for longer than a second jumps to this display.
013	013	Dual Voice Volume	<i>D. Volume</i>	000 – 127	Different for each Voice	Determines the volume of the Dual Voice played on the keyboard.
014	014	Dual Voice Octave	<i>D. Octave</i>	-2 – 0 – 2	Different for each Voice	Determines the pitch of the Dual Voice played on the keyboard in octave increments.
015	015	Dual Voice Reverb Level	<i>D. Reverb</i>	000 – 127	Different for each Voice	When the Reverb effect is turned on, this determines the Reverb depth of the Dual Voice played on the keyboard.
016	016	Dual Voice Chorus Level	<i>D. Chorus</i>	000 – 127	Different for each Voice	When the Chorus effect is turned on, this determines the Chorus depth of the Dual Voice played on the keyboard.
Split Voice						
017	017	Split Voice	<i>S. Voice</i>	001 – 697 (KB-291/KB-290) 001 – 512 (KB-191/KB-190)	Different for each Voice	Selects the Split Voice. Press one of the VOICE category buttons to select the desired category, then select the Voice by using the [-/NO]/[+YES] buttons. Shortcut: Holding the [SPLIT] button for longer than a second jumps to this display.
018	018	Split Point	<i>SplitPnt</i>	000 – 127 (C-2 – G8)	054 (F#2)	Determines the split point, which sets up a separate section of the keyboard for playing chords when playing back Styles. <div style="text-align: center;"> <p>Split Point—Default setting: 54 (F#2)</p> <p>Accompaniment range</p> </div> <div style="text-align: center;"> <p>Split Point</p> </div> <p>Shortcut: Holding the [ACMP ON/OFF] button for longer than a second jumps to this display.</p>
019	019	Split Voice Volume	<i>S. Volume</i>	000 – 127	Different for each Voice	Determines the volume of the Split Voice played on the keyboard.

No.		Function	Display	Setting Range	Default Setting	Description
KB-291/ KB-290	KB-191/ KB-190					
020	020	Split Voice Octave	<i>S. Octave</i>	-2 – 0 – 2	Different for each Voice	Determines the pitch of the Split Voice played on the keyboard in octave increments.
021	021	Split Voice Reverb Level	<i>S. Reverb</i>	000 – 127	Different for each Voice	When the Reverb effect is turned on, this determines the Reverb depth of the Split Voice played on the keyboard.
022	022	Split Voice Chorus Level	<i>S. Chorus</i>	000 – 127	Different for each Voice	When the Chorus effect is turned on, this determines the Chorus depth of the Split Voice played on the keyboard.
Effect						
023	023	Reverb Type	<i>Reverb</i>	01 – 11	Optimum type for the selected Style or Song.	Determines the Reverb type (page 60), including off (11). Shortcut: Holding the [REVERB] button for longer than a second jumps to this display.
024	024	Reverb Level	<i>RevLevel</i>	000 – 127	064	Determines the Reverb depth of the entire instrument.
025	025	Chorus Type	<i>Chorus</i>	1 – 5	Optimum type for the selected Style or Song.	Determines the Chorus type (page 60), including off (5).
026	026	Harmony On/Off	<i>Harmony</i>	ON/OFF	OFF	Turns the Harmony effect on or off.
027	027	Harmony Type	<i>HarmType</i>	01 – 26	Different for each Voice combination	Determines the Harmony type (page 60).
028	028	Harmony Volume	<i>HarmVol</i>	000 – 127	Different for each Voice combination	Determines the volume of the Harmony effect.
Arpeggio						
029	–	Arpeggio Type	<i>ARP Type</i>	001 – 150	Different for each Main Voice	Determines the Arpeggio type (page 61).
030	–	Arpeggio Velocity	<i>ARP Velo</i>	1 (Original)/ 2 (Thru)	Different for each Arpeggio Type	Determines whether the Arpeggio playback volume is controlled by your playing strength or not. • Original: Keeps the same volume regardless of how hard you play the keyboard. • Thru: Changes the volume depending on how hard you play the keyboard.
031	–	Arpeggio Quantize	<i>Quantize</i>	1 (Off)/ 2 (1/8)/ 3 (1/16)	Different for each Arpeggio Type	Determines whether or not the timing of notes will be aligned or corrected to synchronize Arpeggio playback to a Style or Song. • Off: Arpeggio playback is not synchronized to a Style or Song. • 1/8: Aligns off-beat notes to the nearest 4th note. • 1/16: Aligns off-beat notes to the nearest 8th note.
032	–	Arpeggio Pedal Function	<i>Pd1 Func</i>	1 (Sustain)/ 2 (Arp Hold)/ 3 (Hold+Sus)	Different for each Voice	Determines the footswitch function when playing with the Arpeggio Voice. • Sustain: Pressing the footswitch adds Sustain effects to the Main and Dual Voices played on the keyboard. • Arp Hold: Pressing the footswitch maintains Arpeggio playback even when releasing the keys. • Hold+Sus: Both functions above are applied.
MIDI						
033	029	PC Mode	<i>PC mode</i>	PC1/ PC2/ OFF	OFF	Optimizes the MIDI settings for transmitting/receiving performance data to/from the connected computer. (See the end of this list.)
034	030	Local Control On/Off	<i>Local</i>	ON/OFF	ON	Determines whether the instrument's keyboard controls the internal tone generator (ON) or not (OFF).
035	031	External Clock	<i>ExtClock</i>	ON/OFF	OFF	Determines whether the instrument synchronizes to the external clock (ON) or an internal clock (OFF).

Function Settings

No.		Function	Display	Setting Range	Default Setting	Description
KB-291/ KB-290	KB-191/ KB-190					
036	032	Initial Send	<i>InitSend</i>	–	–	Lets you send the data of the panel settings, such as Voice selection, to a computer. Before you record performance data to a sequencer application running on your computer, it is a good idea to first send and record the panel setup data, so that you can playback the recorded performance with the same panel setups. Press the [+ / YES] button to send, or press the [- / NO] button to cancel. "End" will appear briefly when the data is sent successfully.
Other						
037	033	Freeze Mode	<i>Freeze</i>	ON/OFF	OFF	When this is set to ON, no Style settings are called up, even when a Registration Memory button is pressed (page 37). This is useful if you want to switch Voices and other settings while keeping the same Style.
038	034	Battery Type	<i>Battery</i>	Alkaline/ Ni-MH	Alkaline	Determines the battery type to be used. • Alkaline: For using alkaline or manganese batteries. • Ni-MH: For using Ni-MH rechargeable batteries.

NOTE

- MIDI (Musical Instrument Digital Interface) is a world-standard interface for communication between electronic musical instruments and music devices. For details, refer to commercially available MIDI-related books.

NOTE

- (KB-291/KB-290)
The Arpeggio-related settings (Function No. 029 – 032) can only be changed when an Arpeggio Voice is selected (page 13).

■ PC Mode (KB-291/KB-290; Function No. 033 or KB-191/KB-190; Function No. 029)

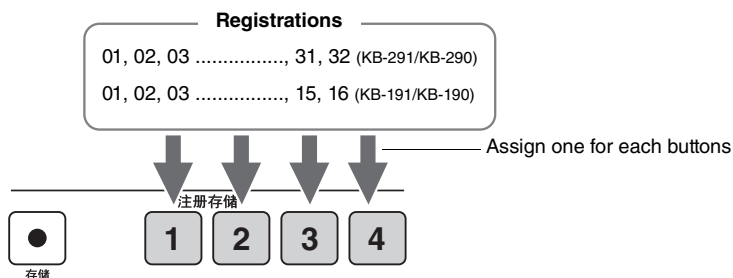
This function instantly reconfigures the following MIDI settings as shown below.

	PC1	PC2	OFF
Local Control *1	Off	Off	On
External Clock *2	On	Off	Off
Song Out *3	Off	Off	On
Style Out *3	Off	Off	Off
Keyboard Out *3	Off	On	On

- *1 On: The keyboard of the instrument controls its own internal tone generator.
Off: The keyboard and controllers are internally disconnected from the instrument's tone generator section so that no sound is output when you play the keyboard or use the controllers.
- *2 On: The instrument is controlled by a MIDI clock signal received from the computer.
Off: The instrument is controlled by its own internal clock.
- *3 On: The data (Song/ Style/ Keyboard performance) is transmitted to the computer.
Off: The data is not transmitted.

Instantly Calling Up Custom Panel Setups (Registration Memory)

The Registration Memory feature lets you save your favorite panel setups (called Registrations) to memory, and then instantly call up your custom panel setups by simply pressing a single button. This instrument can contain 32 Registrations (KB-291/KB-290) or 16 Registrations (KB-191/KB-190), and up to four of them can be assigned to each of the REGISTRATION MEMORY [1]–[4] buttons for instant recall.



By default, the factory default setups are memorized to Registrations No. 01–16 (KB-291/KB-290), and recommended Registrations are memorized to No. 17–32 (KB-291/KB-290) or No. 1–16 (KB-191/KB-190). In addition to this data, you can memorize your original panel setups to each number as desired. Keep in mind that saving your panel setups as a Registration overwrites and erases the preset Registrations. To restore the preset Registrations, execute the Initializing operation (page 47).

Preset Registration List (KB-291/KB-290)

No.	Style / Voice	No.	Style / Voice
01–16	8Beat / Grand Piano	25	Swing1 / Alto Sax
17	China Dance / Er Hu 1	26	Beguine / Sweet! Pan Flute
18	China Pop Ballad 1 / Hu Lu Si	27	ChaChaCha / Big Band Brass
19	Foxtrot / Vibraphone 1	28	Tango / Musette Accordion
20	BossaNova / Flute	29	Samba / Trumpet
21	Waltz / String Ensemble 1	30	OberPolka / Clarinet
22	GuitarSerenade / Sweet! Soprano Sax	31	Disco1 / Orchestra Brass
23	SlowRock / Violin	32	Country / Banjo
24	Ragtime / Sweet! Flute		

Preset Registration List (KB-191/KB-190)

No.	Style / Voice	No.	Style / Voice
01	China Dance / Er Hu 1	09	Swing1 / Alto Sax
02	China Pop Ballad / Hu Lu Si	10	Beguine / Sweet! Pan Flute
03	Foxtrot / Vibraphone 1	11	ChaChaCha / Big Band Brass
04	BossaNova / Flute	12	Tango / Musette Accordion
05	Waltz / String Ensemble 1	13	Samba / Trumpet
06	GuitarSerenade / Sweet! Soprano Sax	14	OberPolka / Clarinet
07	SlowRock / Violin	15	Disco1 / Brass Section
08	Ragtime / Sweet! Flute	16	Country / Banjo

NOTE

- Selecting each number will call up the optimum panel settings as well as the Style and Voice indicated in the above list.

Saving Your Panel Setups

Settings which can be saved to Registration Memory

Style settings*

- Style Number, Volume, Tempo
- Auto Accompaniment On/Off
- Split Point
- Main Section A/B

* Style settings (except for Split Point) are not available for Registration Memory when using the Song features (when the “SONG” icon is showing).

Voice settings

- Main Voice settings (Voice Number, Volume, Octave, Reverb Level, Chorus Level)
- Dual Voice settings (Dual On/Off, Voice Number, Volume, Octave, Reverb Level, Chorus Level)
- Split Voice settings (Split Point, Split On/Off, Voice Number, Volume, Octave, Reverb Level, Chorus Level)

Effect settings

- Reverb On/Off, Type, Level
- Chorus Type
- Sustain On/Off

Harmony settings

- Harmony On/Off, Type, Volume

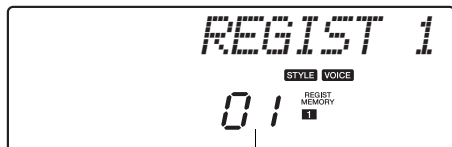
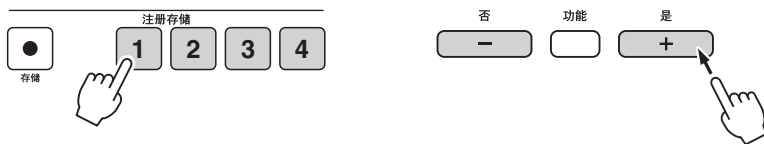
Arpeggio settings (KB-291/KB-290)

- Arpeggio Type, Velocity, Quantize, Pedal Function

Other settings

- Transpose
- Tuning
- Pitch Bend Range
- Portamento On/Off, Time
- Touch On/Off

1 While holding down one of the REGISTRATION MEMORY [1]–[4] buttons, use the [-/NO]/[+/YES] buttons to select the desired Registration number to which you want to save your panel setup.



Registration number 01–32 (KB-291/KB-290) or 01–16 (KB-191/KB-190)

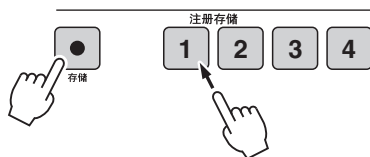
NOTICE

• The Registration data in the selected Registration number will be overwritten and lost when you save new Registration data to the Registration number. Make sure to save your important data to a USB storage device (KB-291/KB-290); page 40 or a computer (page 45).

2 Set up the panel controls (such as Voice, Style effects, and so on) as desired.

- 3** While holding down the [MEMORY] button, press the REGISTRATION MEMORY [1]–[4] button (the same one you pressed in Step 1 above).

A “Writing!” message will appear and the panel setup will be saved to the Registration number selected in step 1.



NOTICE

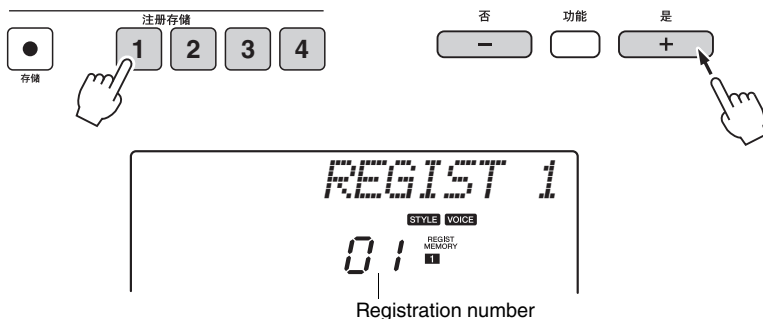
- Be careful not to shut off the power to the instrument when a “Writing!” message is shown in the display. Doing so may result in a loss of data.

- 4** Repeat steps 1–3 above if necessary, to save your panel setups to each of the Registration numbers.

Assigning Registrations to the REGISTRATION MEMORY Buttons and Calling Them Up

- 1** While holding down one of the REGISTRATION MEMORY [1]–[4] buttons to which you wish to assign a Registration, use the [–/NO]/[+/YES] buttons to select the desired Registration number.

Releasing your fingers from the buttons assigns the Registration to the REGISTRATION MEMORY button you selected.



- 2** Press one of the REGISTRATION MEMORY [1]–[4] buttons to call up the Registration assigned to the button.

If you want to call up the Registration and its panel setup but leave the Style unchanged from a previous setting, simultaneously hold down the [OBOE] button (located at the bottom left of the VOICE category buttons) and press the desired REGISTRATION MEMORY [1]–[4] button.

Using a USB Storage Device (KB-291/KB-290)

Connecting a USB Storage Device

By connecting a USB storage device to this instrument's USB [TO DEVICE] terminal, User Songs and Registration Memory can be saved to or loaded from the device individually. You can also load Styles created on another instrument from the device.

Precautions when using the USB [TO DEVICE] terminal

This instrument features a built-in USB [TO DEVICE] terminal. When connecting a USB device to the terminal, be sure to handle the USB device with care. Follow the important precautions below.

NOTE

- For more information about the handling of USB devices, refer to the owner's manual of the USB device.

Compatible USB devices

- USB storage devices (flash memory, etc.)

The instrument does not necessarily support all commercially available USB devices. Yamaha cannot guarantee operation of USB devices that you purchase. Before purchasing a USB device for use with this instrument, please visit the following web page:

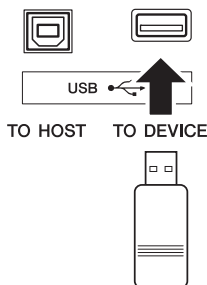
<http://download.yamaha.com/>

NOTE

- Other USB devices such as a computer keyboard or mouse cannot be used.

Connecting USB device

When connecting a USB device to the USB [TO DEVICE] terminal, make sure that the connector on the device is appropriate and that it is connected in the proper direction.



NOTE

- When connecting a USB cable, make sure that the length is less than 3 meters.
- Though the instrument supports the USB 1.1 standard, you can connect and use a USB 2.0 storage device with the instrument. However, note that the transfer speed is that of USB 1.1.

Using USB Storage Devices

By connecting the instrument to a USB storage device, you can save data you've created to the connected device, as well as read data from the connected device.

The number of USB storage devices to be used

Only one USB storage device can be connected to the USB [TO DEVICE] terminal.

Formatting USB storage devices

When a USB storage device is connected, an "Unformat" (Unformatted) may appear prompting you to format the device. If so, execute the Format operation (page 44).

NOTICE

- The format operation overwrites any previously existing data. Make sure that the device you are formatting does not contain important data.

To protect your data (write-protect)

To prevent important data from being inadvertently erased, apply the write-protect provided with each storage device or media. If you are saving data to the USB storage device, make sure to disable write-protect.

Connecting/removing USB storage device

Before removing the USB storage device, make sure that the instrument is not accessing data (such as in the Save, Delete, Load and Format operations).

NOTICE

- Avoid frequently turning the power on/off to the USB storage device, or connecting/disconnecting the device too often. Doing so may result in the operation of the instrument "freezing" or hanging up. While the instrument is accessing data (such as during Save, Delete, Load and Format operations) or is mounting the USB storage device (while "USB" icon is flashing), do NOT unplug the USB connector. Doing so may corrupt the data on either or both devices.

File Control Mode

USB storage device operations, such as Save and Load can be performed in the File Control mode.

NOTE

- Before using a USB storage device, be sure to read “Connecting a USB Storage Device” (page 38).
- A message (information or confirmation dialog) sometimes appears in the display to facilitate operation. For details, refer to the Message List on page 62.
- If you organize the files in a USB storage device by using computer, make sure to save them in the “USER FILES” folder and do not save them to any folder lower than the second level (“USER FILES” folder: first level), otherwise the files may not be recognized by the instrument.

Basic Operation

1 Make sure that the AC power adaptor is plugged into an AC outlet.

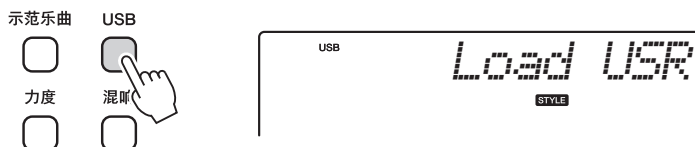
The File Control operations cannot be performed when the instrument is running on battery power.

2 Connect a USB storage device to the USB [TO DEVICE] terminal.

Wait until the device is properly mounted.



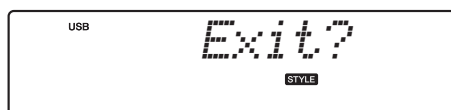
3 To enter the File Control mode, hold the [USB] button until “Load USB” appears.



4 Perform the desired operations by referring to the relevant pages indicated in the chart below.

Operation	Page
Saving Registration Memory to the USB Storage Device	40
Loading Registration Memory from the USB Storage Device	40
Deleting Registration Memory in the USB Storage Device	41
Saving User Songs to the USB Storage Device	42
Deleting Song Files in the USB Storage Device	43
Loading Style Files to the Instrument	43
Formatting the USB Storage Device	44

5 Use the [-/NO]/[+/YES] buttons to select “Exit?” and press the [FUNCTION] button to exit from the File Control mode.



You can also exit from the File Control mode by simply pressing the [VOICE] or [STYLE] button.

NOTE

- If an “Unformat” (unformatted) message appears, execute the Format operation (page 44) to use the device on this instrument.
- You cannot enter the File Control mode during Style or Song playback and recording.
- No sound will be produced if you play the keyboard when in the File Control mode; in this state only buttons related to file functions will be active.

NOTICE

- Do not shut off the power of the instrument or disconnect the USB storage device during executing the operation. Doing so may corrupt the data on either or both devices.

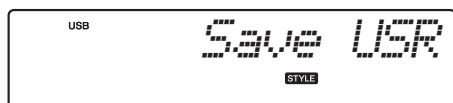
NOTE

- Songs can be loaded to the instrument by using the Musicsoft Downloader software (page 46).

Saving Registration Memory Settings to the USB Storage Device

All Registrations in the Registration Memory can be saved to the USB storage device as a single file (extension: USR). Up to 100 files can be saved (file name: “USER001” – “USER100”).

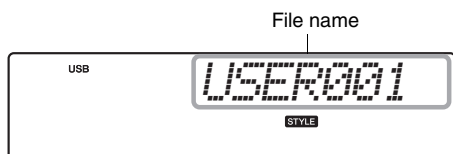
- 1 Enter the File Control mode (steps 1–3 on page 39) and use the [-/NO]/[+/YES] buttons to call up “Save USR.”



- 2 Press the [FUNCTION] button.

- 3 Use the [-/NO]/[+/YES] buttons to select the file name to be saved, if necessary.

The next consecutively available file name in the USB storage device (one not having data) will automatically be selected.



- 4 Press the [FUNCTION] button and “SaveOK?” appears, prompting you for confirmation.

If you select an existing file name in step 3, “Overwr?” appears to confirm if you want to overwrite the data.

To cancel the Save operation, press the [-/NO] button.

- 5 To execute the Save operation, press the [FUNCTION] button again, or press the [+/YES] button.

“Comple.” appears briefly and the Registration Memory file will be saved to the “USER FILES” folder in the USB storage device.

NOTE

- When the operation is completed, exit the File Control mode (step 5 on page 39).

Loading Registration Memory from the USB Storage Device

A Registration Memory file (extension: USR) saved to the “USER FILES” folder in the USB storage device can be loaded to the instrument.

- 1 Enter the File Control mode (steps 1–3 on page 39) and use the [-/NO]/[+/YES] buttons to call up “Load USR.”

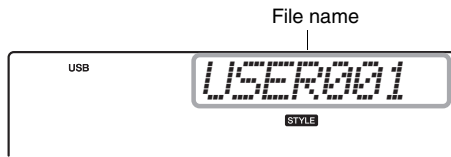


- 2 Press the [FUNCTION] button.

NOTICE

- Loading the Registration Memory overwrites and erases all Registrations in the instrument. Save important data to a USB storage device beforehand.

- 3** Use the [-/NO]/[+/YES] buttons to select the desired file in the USB storage device.



- 4** Press the [FUNCTION] button and “LoadOK?” appears, prompting you for confirmation.

To cancel the Load operation, press the [-/NO] button.

- 5** To execute the Load operation, press the [FUNCTION] button again, or press the [+/YES] button.

“Compleet.” appears briefly when the operation is complete. Try calling up a Registration by pressing one of the REGISTRATION MEMORY buttons to see if the data has been properly loaded.

NOTE

- When the operation is completed, exit the File Control mode (step 5 on page 39).

Deleting Registration Memory in the USB Storage Device

Registration Memory files (extension: USR) saved to the “USER FILES” folder in the USB storage device can be deleted one by one.

- 1** Enter the File Control mode (steps 1–3 on page 39) and use the [-/NO]/[+/YES] buttons to call up “Del USR.”



- 2** Press the [FUNCTION] button.

- 3** Use the [-/NO]/[+/YES] buttons to select the desired file in the USB storage device.



- 4** Press the [FUNCTION] button and “Del OK?” appears, prompting you for confirmation.

To cancel the Delete operation, press the [-/NO] button.

- 5** To execute the Delete operation, press the [FUNCTION] button again, or press the [+/YES] button.

“Compleet.” appears briefly when the operation is complete.

NOTE

- When the operation is completed, exit the File Control mode (step 5 on page 39).

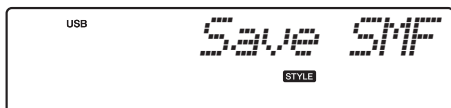
Saving User Songs to the USB Storage Device

User Songs you've recorded can be saved to the USB storage device as SMF files one by one (extension: MID). Up to 100 files can be saved (file name: "SONG001" – "SONG100").

NOTE 1

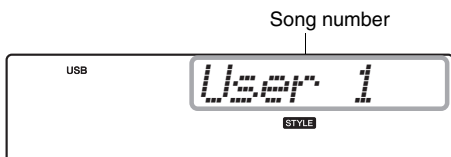
• The SMF (Standard MIDI File) format is one of the most common and widely compatible sequence formats used for storing sequence data. There are two variations: Format 0 and Format 1. A large number of MIDI devices are compatible with SMF Format 0, and most commercially available MIDI sequence data is provided in SMF Format 0. The recorded Songs on this instrument are saved as SMF format 0.

- 1 Enter the File Control mode (steps 1–3 on page 39) and use the [-/NO]/[+/YES] buttons to call up "Save SMF."



- 2 Press the [FUNCTION] button.
- 3 Use the [-/NO]/[+/YES] buttons to select the desired Song number.

Only Song numbers which contain recorded data can be selected.



- 4 Press the [FUNCTION] button.
- 5 Use the [-/NO]/[+/YES] buttons to select the file name to be saved, if necessary.

The next consecutively available file name in the USB storage device (one not having data) will automatically be selected.



- 6 Press the [FUNCTION] button and "SaveOK?" appears, prompting you for confirmation.

If you select an existing file name in step 4, "Overwr?" appears to confirm if you want to overwrite the data.

To cancel the Save operation, press the [-/NO] button.

- 7 To execute the Save operation, press the [FUNCTION] button again, or press the [+/YES] button.

"Compleat." appears briefly and the Song file will be saved to the "USER FILES" folder in the USB storage device.

NOTE 1

• When the operation is completed, exit the File Control mode (step 5 on page 39).

Deleting Song Files in the USB Storage Device

User Song files (extension: MID) saved to the “USER FILES” folder in the USB storage device can be deleted one by one.

- 1 Enter the File Control mode (steps 1–3 on page 39) and use the [-/NO]/[+/YES] buttons to call up “Del SMF.”



- 2 Press the [FUNCTION] button.
- 3 Use the [-/NO]/[+/YES] buttons to select the desired file.



- 4 Press the [FUNCTION] button and “Del OK?” appears, prompting you for confirmation.

To cancel the Delete operation, press the [-/NO] button.

- 5 To execute the Delete operation, press the [FUNCTION] button again, or press the [+/YES] button.

“Comple.” appears briefly when the operation is complete.

NOTE

- When the operation is completed, exit the File Control mode (step 5 on page 39).

Loading a Style File to the Instrument

A single Style file can be loaded to this instrument for playing back. This can be loaded either from a connected USB storage device (Style file with extension “STY”) or the internal memory of the instrument (when a Style File has been transferred from computer; page 46). This Style will be numbered 191 and can be selected for playback by entering the number as described on page 16.

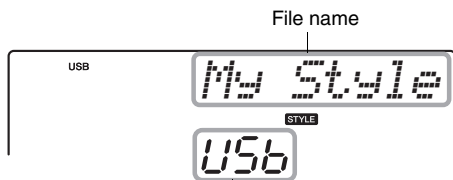
- 1 Enter the File Control mode (steps 1–3 on page 39) and use the [-/NO]/[+/YES] buttons to call up “Load STY.”

Make sure that the Style files are not located inside any folders (including the “USER FILES” folder). Also, do not name the Styles with two-byte characters. Otherwise the files cannot be loaded.



- 2 Press the [FUNCTION] button.

3 Use the [-/NO]/[+/YES] buttons to select the desired file.



- *USB*: Indicates the Style is in the USB storage device.
- *FLR*: Indicates the Style is in the internal memory of this instrument.

4 Press the [FUNCTION] button and “Load OK?” appears, prompting you for confirmation.

To cancel the Load operation, press the [-/NO] button.

5 To execute the Load operation, press the [FUNCTION] button again, or press the [+/YES] button.

“Compleet.” appears briefly when the operation is complete. Try calling up the Style by selecting Style number 191 (page 16) to see if the file has been properly loaded.

NOTE 1

- Loading a Style to the instrument overwrites the previous data in Style number 191.

NOTICE

- The loaded Style cannot be saved to an external device. Make sure to keep the copy of the data you've loaded in a USB storage device or a computer.

NOTE 1

- When the operation is completed, exit the File Control mode (step 5 on page 39).

Formatting the USB Storage Device

When a USB storage device is connected, an “Unformat” (Unformatted) may appear prompting you to format the device. If so, execute the Format operation.

1 Enter the File Control mode (steps 1–3 on page 39) and use the [-/NO]/[+/YES] buttons to call up “Format?”



2 Press the [FUNCTION] button and “Sure?” appears, prompting you for confirmation.

To cancel the Format operation, press the [-/NO] button.

3 To execute the Format operation, press the [FUNCTION] button again, or press the [+/YES] button.

“Compleet.” appears briefly when the operation is complete.

NOTE 1

- When the operation is completed, exit the File Control mode (step 5 on page 39).

NOTICE

- When formatting is executed, all data stored in the USB storage device will be erased and lost. Save important data to a computer or another storage device.

Transferring Data between the Instrument and a Computer

By connecting a computer to the USB [TO HOST] terminal, you can transfer data between the instrument and a computer, and use the computer to control, edit and organize data on the instrument.

Connecting a Computer

Precautions when using the USB [TO HOST] terminal

When connecting the computer to the USB [TO HOST] terminal, make sure to observe the following points. Failing to do so risks freezing the computer and corrupting or losing the data. If the computer or the instrument freezes, restart the application software or the computer OS, or turn the power to the instrument off then on again.

NOTICE

- Use an AB type USB cable of less than 3 meters. USB 3.0 cables cannot be used.
- Before connecting the computer to the USB [TO HOST] terminal, exit from any power-saving mode of the computer (such as suspend, sleep, standby).
- Before turning on the power to the instrument, connect the computer to the USB [TO HOST] terminal.
- Execute the following before turning the power to the instrument on/off or plugging/unplugging the USB cable to/from the USB [TO HOST] terminal.
 - Quit any open application software on the computer.
 - Make sure that data is not being transmitted from the instrument. (Data is transmitted only by playing notes on the keyboard or playing back a song.)
- While the computer is connected to the instrument, you should wait for six seconds or more between these operations: (1) when turning the power of the instrument off then on again, or (2) when alternately connecting/disconnecting the USB cable.

1 Make sure your computer can work with this instrument.

Compatible Operating Systems (OS)

Windows XP (SP3 or later; 32-bit), Windows Vista (32-bit), Windows 7, Mac OS X Version 10.5.0–10.7.x

NOTICE

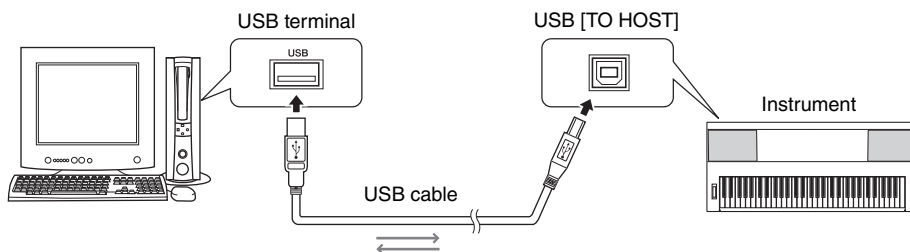
- Never connect the instrument to the computer with an OS other than those listed above. Doing so may damage the computer.

2 Turn off the power of the instrument.

3 Turn on the power of the computer.

Quit any open application software on the computer.

4 Connect the USB cable to the USB [TO HOST] terminal of the instrument, then to the USB terminal of the computer.



5 Turn on the power of the instrument.

The computer will automatically be set to enable MIDI communication with this instrument.

NOTICE

- Plug in the AC power adaptor when transferring data to and from the computer. The data might be corrupted if the batteries fail during the transfer.

Yamaha Standard USB-MIDI Driver

When data communication is unstable or some problem occurs with the above operations, download the Yamaha standard USB-MIDI driver from the following URL:

<http://download.yamaha.com/>

Install the driver to the computer by following the Installation Guide in the package file.

Transferring Performance Data

Performance data played or recorded on the instrument can be used on the computer, and performance data from the computer can be played on the instrument. To transfer the data, you need to make MIDI-related settings on the instrument. For details, refer to page 33.

NOTE

- *MIDI (Musical Instrument Digital Interface) is a world-standard interface for communication between electronic musical instruments and music devices. For details, refer to commercially available MIDI-related books.*

Transferring Data Files via Musicsoft Downloader

By using Yamaha Musicsoft Downloader software, you can transfer Backup data, Song files (SMF format 0) and Style files (SFF: KB-291/KB-290) between the instrument and a computer.

Data that can be transferred between this instrument and a computer

With the Musicsoft Downloader, the following data can be transferred between the instrument and a computer.

- Backup Data (page 47): “KB-290.BUP” (KB-291/KB-290) or “KB-190.BUP” (KB-191/KB-190)
- External Song (created on another instrument or computer): “xxxxx.MID”
- (KB-291/KB-290)
External Style (created on another instrument or computer): “xxxxx.STY”

NOTICE

- *To avoid power failure during data transfer, use the AC power adaptor rather than batteries. The data can be corrupted if the power fails during the transfer.*
- *Do not operate the instrument (including connecting/disconnecting a USB storage device (KB-291/KB-290) during data transmission. Not only will the data fail to be transferred and saved, but operation of the instrument or the computer may become unstable.*
- *Transferring backup data to the instrument will overwrite all backup data in the instrument. Keep in mind that the User Songs and Registration Memory data will also be overwritten and erased when transferring the data.*

NOTE

- *If you organize files on the computer, never change the file name of backup data. Also, do not name the Songs or Styles with two-byte characters. Otherwise the files may fail to be transferred or may not be recognized by the instrument.*
- (KB-291/KB-290)
In order to play an External Style on the instrument, it must first be loaded with the Load operation (page 43).

Installing Musicsoft Downloader to a Computer

Musicsoft Downloader can be downloaded from the following URL:

<http://download.yamaha.com/>

Install the software to the computer by following the on-screen instructions. For information about the computer system requirements, refer to the URL above.

For operating instructions on Musicsoft Downloader, refer to the “Help” menu in the software.

Initializing the Instrument

Backup Data

The following settings and data will be retained even when the power is turned off. If you want to restore the factory programmed settings, execute the initialization operation as explained in the next section.

- Registration Memory
- Tuning
- Pitch Bend Range
- Touch Response On/Off
- Touch Response Sensitivity
- Split Point
- Style Volume
- Song Volume
- Portamento Time
- Freeze Mode On/Off
- Battery Type
- User Songs (Songs recorded on this instrument)
- Style No. 191 (Loaded Style data) (KB-291/KB-290)

NOTE

- You can save the backup data to your computer, by using the Musicsoft Downloader software (page 46).

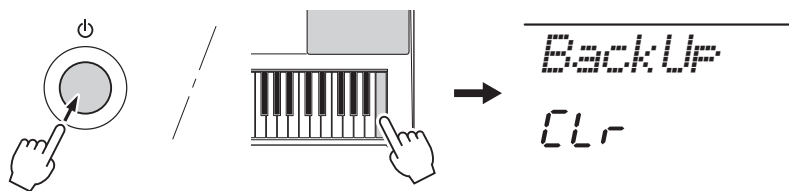
In addition to the backup data above, the Song and Style (KB-291/KB-290) files transferred from a computer will also be retained even when the power is turned off.

Initialization

This function erases backed up settings and backed up Song/Style data independently and restores the initial default settings.

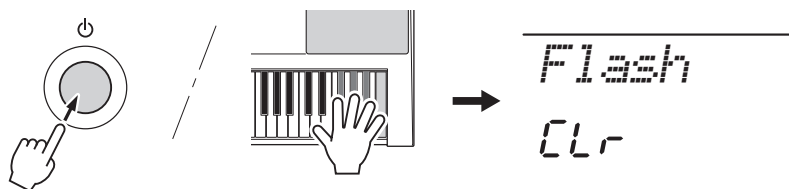
Initializing the Settings

All backup data (not including the Song and Style (KB-291/KB-290) files transferred from a computer) can be initialized to the factory default settings. To do this, simultaneously hold down the highest key and turn on the power. “BackUp CLR” appears briefly on the display.



Deleting the Song and Style (KB-291/KB-290) Files Transferred from a Computer

To do this, simultaneously hold down the highest white key with the three highest black keys, and turn on the power. “Flash CLR” appears briefly on the display.



NOTE

- When you execute the Flash Clear operation, data you have purchased will also be cleared. Be sure to save data you want to keep to a computer.

Voice List

Maximum Polyphony

The instrument has 32-note maximum polyphony. This means that it can play a maximum of up to 32 notes at once, regardless of what functions are used. Auto accompaniment uses a number of the available notes, so when auto accompaniment is used the total number of available notes for playing on the keyboard is correspondingly reduced. The same applies to the Split Voice and Song functions. If the maximum polyphony is exceeded, earlier played notes will be cut off and the most recent notes have priority (last note priority).

NOTE

- The Voice List includes MIDI program change numbers for each Voice. Use these program change numbers when playing the instrument via MIDI from an external device.
- Program change numbers are often specified as numbers “0–127” Since this list uses a “1–128” numbering system, in such cases it is necessary to subtract 1 from the transmitted program change numbers to select the appropriate sound: e.g. to select No. 2 in the list below, transmit program change number 1.
- Some Voices may sound continuously or have a long decay after the notes have been released while the sustain pedal (footswitch) is held.

Voice No.		Bank Select		Program Change No. (1–128)	Voice Name
KB-291/ KB-290	KB-191/ KB-190	MSB (0–127)	LSB (0–127)		
ERHU					
001	001	0	115	111	Er Hu 1
002	002	0	113	111	Er Hu 2
003	-	0	120	111	Ma Tou Qin
BANHU					
004	003	0	116	111	Ban Hu
005	004	0	117	111	Jing Hu 1
006	005	0	114	111	Jing Hu 2
007	-	0	118	111	Jing Hu Tremolo
008	006	0	119	111	Gao Hu
PIPA					
009	007	0	113	106	Pi Pa 1
010	008	0	114	106	Pi Pa 2
011	-	0	116	106	Pi Pa Tremolo
012	-	0	117	106	Liu Qin
013	-	0	115	106	Ruan
SANXIAN					
014	009	0	113	107	San Xian
YANGQIN					
015	010	0	113	16	Yang Qin
GUZHENG					
016	011	0	115	108	Gu Zheng
DIZI					
017	012	0	117	74	Di Zi 1
018	013	0	116	74	Di Zi 2
019	014	0	113	78	Xiao 1
020	015	0	114	78	Xiao 2
021	-	0	113	80	Xun
SHENG					
022	016	0	116	110	Sheng 1
023	017	0	113	110	Sheng 2
SUONA					
024	018	0	112	112	Suo Na 1
025	019	0	113	112	Suo Na 2
BAWU/HULUSI					
026	020	0	117	110	Hu Lu Si
027	021	0	115	110	Ba Wu
028	-	0	114	110	Ba Wu / Hu Lu Si
ENSEMBLE					
029	022	0	125	49	Er Hu Ensemble
CHINA KIT					
030	023	126	0	125	China Kit 1
031	024	127	0	127	China Kit 2
PIANO					
032	025	0	112	1	Grand Piano
033	026	0	112	2	Bright Piano
034	-	-	-	-	Octave Piano
035	027	0	112	3	MIDI Grand Piano
036	028	0	113	3	CP 80

Voice No.		Bank Select		Program Change No. (1–128)	Voice Name
KB-291/ KB-290	KB-191/ KB-190	MSB (0–127)	LSB (0–127)		
037	-	-	-	-	Piano & Strings
HONKYTONK					
038	029	0	112	4	Honky-tonk Piano
HARPSICHORD					
039	030	0	112	7	Harpsichord
040	-	-	-	-	Grand Harpsichord
E.PIANO					
041	-	-	-	-	Electric Piano & Pad
042	031	0	114	5	Cool! Galaxy Electric Piano
043	032	0	112	5	Funky Electric Piano
044	033	0	112	6	DX Modern Electric Piano
045	034	0	113	6	Hyper Tines
046	035	0	114	6	Venus Electric Piano
047	036	0	112	8	Clavi
ORGAN					
048	037	0	112	20	Pipe Organ
049	-	-	-	-	Cathedral
050	038	0	113	20	Chapel Organ
051	039	0	112	21	Reed Organ
JAZZ ORGAN					
052	040	0	112	17	Jazz Organ 1
053	041	0	118	19	Cool! Organ
054	042	0	117	19	Cool! Rotor Organ
055	043	0	113	17	Jazz Organ 2
056	044	0	112	18	Click Organ
057	045	0	116	17	Bright Organ
058	046	0	112	19	Rock Organ
059	047	0	114	19	Purple Organ
060	048	0	121	20	16'+2' Organ
061	049	0	120	20	16'+4' Organ
062	050	0	127	19	Theater Organ
ACCORDION					
063	051	0	112	22	Musette Accordion
064	052	0	113	22	Traditional Accordion
065	053	0	113	24	Bandoneon
MUSIC BOX					
066	054	0	112	11	Music Box
067	055	0	112	15	Tubular Bells
068	056	0	112	9	Celesta
VIBRAPHONE					
069	057	0	113	12	Vibraphone 1
070	058	0	112	12	Vibraphone 2
MARIMBA					
071	059	0	112	13	Marimba
072	060	0	112	14	Xylophone
STRINGS1					
073	061	0	116	49	String Ensemble 1
074	062	0	112	49	String Ensemble 2
075	063	0	112	50	Chamber Strings

Voice No.		Bank Select		Program Change No. (1-128)	Voice Name
KB-291/ KB-290	KB-191/ KB-190	MSB (0-127)	LSB (0-127)		
076	-	0	115	50	Marcato Strings
077	-	-	-	-	Orchestra Strings
078	-	-	-	-	Octave Strings
079	-	-	-	-	Tutti
STRINGS2					
080	-	-	-	-	Octave Pizzicato
081	064	0	113	50	Slow Strings
082	065	0	112	45	Tremolo Strings
083	066	0	112	46	Pizzicato Strings
084	067	0	112	51	Synth Strings
VIOLIN					
085	068	0	112	41	Violin
086	069	0	0	42	Viola
CELLO					
087	070	0	112	43	Cello
088	071	0	112	44	Contrabass
FLUTE					
089	072	0	112	74	Flute
090	073	0	114	74	Sweet! Flute
091	074	0	112	73	Piccolo
PAN FLUTE					
092	075	0	112	76	Pan Flute
093	076	0	113	76	Sweet! Pan Flute
CLARINET					
094	077	0	112	72	Clarinet
095	078	0	113	72	Orchestra Clarinet
SAXOPHONE					
096	079	0	113	65	Sweet! Soprano Sax
097	080	0	117	67	Sweet! Tenor Sax
098	081	0	112	65	Soprano Sax
099	082	0	112	66	Alto Sax
100	083	0	112	67	Tenor Sax
101	084	0	112	68	Baritone Sax
102	085	0	114	67	Breathy Tenor Sax
103	-	-	-	-	Alto Sax & Tenor Sax
104	086	0	116	66	Sax Ensemble
OBOE					
105	087	0	112	69	Oboe
106	088	0	112	70	English Horn
107	-	0	116	72	WoodWind Section
BASSOON					
108	089	0	112	71	Bassoon
109	-	-	-	-	Bassoon & Clarinet
TRUMPET					
110	090	0	112	57	Trumpet
111	091	0	115	57	Sweet! Trumpet
112	092	0	112	60	Muted Trumpet
113	093	0	113	57	Flugel Horn
TROMBONE					
114	094	0	112	58	Trombone
115	095	0	113	58	Trombone Section
116	-	-	-	-	Trumpet & Trombone
HORN					
117	096	0	112	61	French Horn
118	-	-	-	-	Octave Horn
TUBA					
119	097	0	112	59	Tuba
120	098	0	112	48	Timpani
BRASS					
121	099	0	120	62	Brass
122	100	0	112	62	Brass Section
123	101	0	113	62	Big Band Brass
124	102	0	119	62	Mellow Horns
125	-	-	-	-	Orchestra Brass
126	103	0	116	62	Octave Brass

Voice No.		Bank Select		Program Change No. (1-128)	Voice Name
KB-291/ KB-290	KB-191/ KB-190	MSB (0-127)	LSB (0-127)		
127	-	-	-	-	Jazz Brass
128	-	0	115	63	Funkey Brass
129	104	0	112	63	Synth Brass
130	105	0	113	63	80s Brass
131	106	0	114	63	Techno Brass
CHOIR					
132	107	0	113	53	Vocal Ensemble
133	108	0	112	53	Choir
134	-	-	-	-	Grand Choir
135	109	0	112	54	Vox Humana
136	110	0	112	55	Air Choir
HARP					
137	111	0	112	47	Harp
138	112	0	112	56	Orchestra Hit
HARMONICA					
139	113	0	112	23	Harmonica
140	114	0	113	23	Modern Harp
SYNTH LEAD					
141	115	0	112	81	Square Lead
142	-	0	108	82	Tech Saw
143	-	0	119	88	Sync B
144	116	0	112	82	Sawtooth Lead
145	-	0	112	88	Under Heim
146	-	0	112	85	Portatone
147	117	0	112	86	Voice Lead
148	-	0	121	82	Funky Lead
149	118	0	112	99	Star Dust
150	119	0	112	101	Brightness
151	120	0	115	82	Analogon
152	121	0	119	82	Fargo
SYNTH PAD					
153	122	0	112	89	Fantasia
154	-	0	116	99	Dynamic Chime
155	123	0	126	90	Analog Pad
156	-	0	116	91	Short Resonance
157	-	0	118	89	Sweet Heaven
158	-	0	121	89	Dream Heaven
159	-	0	113	89	Symbiont
160	124	0	113	101	Bell Pad
161	125	0	112	92	Xenon Pad
162	126	0	112	95	Equinox
163	127	0	113	90	Dark Moon
ACOURSTIC GUITAR					
164	128	0	112	25	Classical Guitar
165	129	0	112	26	Folk Guitar
166	-	0	116	25	Dynamic Nylon Guitar
167	130	0	113	26	12Strings Guitar
ELECTRIC GUITAR					
168	131	0	118	30	Dynamic Overdriven Guitar
169	132	0	112	27	Jazz Guitar
170	133	0	113	27	Octave Guitar
171	134	0	112	28	Clean Guitar
172	135	0	117	28	60s Clean Guitar
173	136	0	112	29	Muted Guitar
174	137	0	112	30	Overdriven Guitar
175	138	0	112	31	Distortion Guitar
BASS					
176	139	0	112	33	Acoustic Bass
177	140	0	112	34	Finger Bass
178	-	0	116	34	Dynamic Electric Bass
179	141	0	112	35	Pick Bass
180	142	0	112	36	Fretless Bass
181	143	0	112	37	Slap Bass
182	-	0	118	40	DX100 Bass
183	-	0	119	39	Fat Lo Bass

Voice List

Voice No.		Bank Select		Program Change No. (1-128)	Voice Name
KB-291/ KB-290	KB-191/ KB-190	MSB (0-127)	LSB (0-127)		
184	144	0	112	39	Synth Bass
185	145	0	113	39	Hi-Q Bass
186	146	0	113	40	Dance Bass
WORLD					
187	147	0	0	105	Sitar
188	148	0	97	105	Tamboura
189	-	0	96	105	Tambra
190	149	0	96	106	Rabab
191	150	0	98	106	Oud
192	151	0	0	107	Shamisen
193	152	0	97	106	Gopichant
194	153	0	0	108	Koto
195	154	0	96	108	Taisho-kin
196	155	0	0	16	Dulcimer
197	156	0	97	108	Kanoon
198	157	0	96	16	Cimbalom
199	158	0	97	16	Santur
200	159	0	0	112	Shanai
201	-	0	96	112	Pungi
202	-	0	97	112	Hichiriki
203	160	0	112	75	Recorder
204	161	0	112	80	Ocarina
205	162	0	112	115	Steel Drums
206	163	0	112	106	Banjo
SE/XG					
207	164	126	0	1	SFX Kit 1
208	165	126	0	2	SFX Kit 2
209	166	126	0	126	Wonderland Kit
210	-	-	-	-	Arpeggio Piano 1
211	-	-	-	-	Arpeggio Piano 2
212	-	-	-	-	Arpeggio Strings
213	-	-	-	-	Arpeggio Harp
214	-	-	-	-	Arpeggio SynthLead 1
215	-	-	-	-	Arpeggio SynthLead 2
216	-	-	-	-	Arpeggio SynthPad
217	-	-	-	-	Arpeggio Folk Guitar
218	-	-	-	-	Arpeggio Drums1
219	-	-	-	-	Arpeggio Drums2
220	167	0	0	1	Grand Piano
221	168	0	1	1	Grand Piano KSP
222	-	0	18	1	MellowGrPno
223	169	0	40	1	Piano Strings
224	170	0	41	1	Dream
225	171	0	0	2	Bright Piano
226	172	0	1	2	Bright Piano KSP
227	173	0	0	3	Electric Grand Piano
228	174	0	1	3	Electric Grand Piano KSP
229	175	0	32	3	Detuned CP80
230	-	0	40	3	LayeredCP 1
231	-	0	41	3	LayeredCP 2
232	176	0	0	4	Honky-tonk Piano
233	177	0	1	4	Honky-tonk Piano KSP
234	178	0	0	5	Electric Piano 1
235	179	0	1	5	Electric Piano 1 KSP
236	-	0	18	5	MellowEP 1
237	180	0	32	5	Chorus Electric Piano 1
238	-	0	40	5	HardEl.Piano
239	-	0	45	5	Velocity Crossfade El.P 1
240	-	0	64	5	60's El.Piano 1
241	181	0	0	6	Electric Piano 2
242	182	0	1	6	Electric Piano 2 KSP
243	183	0	32	6	Chorus Electric Piano 2
244	-	0	33	6	DX EP Hard
245	-	0	34	6	DX Legend
246	-	0	40	6	DX Phase EP

Voice No.		Bank Select		Program Change No. (1-128)	Voice Name
KB-291/ KB-290	KB-191/ KB-190	MSB (0-127)	LSB (0-127)		
247	184	0	41	6	DX + Analog Electric Piano
248	-	0	42	6	DX Koto EP
249	-	0	45	6	Velocity Crossfade El.P 2
250	185	0	0	7	Harpsichord
251	186	0	1	7	Harpsichord KSP
252	187	0	25	7	Harpsichord 2
253	-	0	27	8	Clavi.Wah
254	-	0	35	7	Harpsichord 3
255	-	0	64	8	Pulse Clavi.
256	188	0	0	8	Clavi
257	189	0	1	8	Clavi KSP
258	-	0	65	8	PierceClavi.
259	190	0	0	9	Celesta
260	191	0	0	10	Glockenspiel
261	192	0	0	11	Music Box
262	193	0	64	11	Orgel
263	194	0	0	12	Vibraphone
264	195	0	1	12	Vibraphone KSP
265	-	0	45	12	Hard Vibes
266	196	0	0	13	Marimba
267	197	0	1	13	Marimba KSP
268	198	0	64	13	Sine Marimba
269	199	0	97	13	Balimba
270	200	0	98	13	Log Drums
271	201	0	0	14	Xylophone
272	202	0	0	15	Tubular Bells
273	203	0	96	15	Church Bells
274	204	0	35	16	Dulcimer 2
275	205	0	97	15	Carillon
276	206	0	0	17	Drawbar Organ
277	207	0	32	17	Detuned Drawbar Organ
278	208	0	33	17	60's Drawbar Organ 1
279	209	0	34	17	60's Drawbar Organ 2
280	210	0	35	17	70's Drawbar Organ 1
281	211	0	36	17	Drawbar Organ 2
282	-	0	37	17	60's Drawbar Organ 3
283	-	0	38	17	Even Bar Organ
284	212	0	40	17	16+2'2/3
285	213	0	64	17	Organ Bass
286	214	0	65	17	70's Drawbar Organ 2
287	-	0	66	17	Cheezey Organ
288	215	0	67	17	Drawbar Organ 3
289	216	0	0	18	Percussive Organ
290	217	0	24	18	70's Percussive Organ
291	218	0	32	18	Detuned Percussive Organ
292	-	0	33	18	Light Organ
293	219	0	37	18	Percussive Organ 2
294	220	0	0	19	Rock Organ
295	221	0	64	19	Rotary Organ
296	222	0	65	19	Slow Rotary
297	223	0	66	19	Fast Rotary
298	224	0	0	20	Church Organ
299	225	0	32	20	Church Organ 3
300	226	0	35	20	Church Organ 2
301	227	0	40	20	Notre Dame
302	228	0	64	20	Organ Flute
303	229	0	65	20	Tremolo Organ Flute
304	230	0	0	21	Reed Organ
305	231	0	40	21	Puff Organ
306	232	0	0	22	Accordion
307	-	0	32	22	Accordit
308	233	0	0	23	Harmonica
309	234	0	32	23	Harmonica 2
310	235	0	0	24	Tango Accordion
311	236	0	64	24	Tango Accordion 2

Voice No.		Bank Select		Program Change No. (1-128)	Voice Name
KB-291/ KB-290	KB-191/ KB-190	MSB (0-127)	LSB (0-127)		
312	237	0	0	25	Nylon Guitar
313	-	0	16	25	Nylon Guitar 2
314	-	0	25	25	Nylon Guitar 3
315	-	0	43	25	Velocity Guitar Harmonics
316	238	0	96	25	Ukulele
317	239	0	0	26	Steel Guitar
318	-	0	16	26	Steel Guitar 2
319	-	0	35	26	12-string Guitar
320	240	0	40	26	Nylon & Steel Guitar
321	241	0	41	26	Steel Guitar with Body Sound
322	242	0	96	26	Mandolin
323	243	0	0	27	Jazz Guitar
324	-	0	18	27	Mellow Guitar
325	244	0	32	27	Jazz Amp
326	245	0	0	28	Clean Guitar
327	246	0	32	28	Chorus Guitar
328	247	0	0	29	Muted Guitar
329	248	0	40	29	Funk Guitar 1
330	249	0	41	29	Muted Steel Guitar
331	250	0	43	29	Funk Guitar 2
332	-	0	45	29	Jazz Man
333	251	0	0	30	Overdriven Guitar
334	252	0	43	30	Guitar Pinch
335	253	0	0	31	Distortion Guitar
336	254	0	40	31	Feedback Guitar
337	255	0	41	31	Feedback Guitar 2
338	256	0	0	32	Guitar Harmonics
339	257	0	65	32	Guitar Feedback
340	258	0	66	32	Guitar Harmonics 2
341	259	0	0	33	Acoustic Bass
342	260	0	40	33	Jazz Rhythm
343	261	0	45	33	Velocity Crossfade Upright Bass
344	262	0	0	34	Finger Bass
345	263	0	18	34	Finger Dark
346	-	0	27	34	Flange Bass
347	264	0	40	34	Bass & Distorted Electric Guitar
348	265	0	43	34	Finger Slap Bass
349	266	0	45	34	Finger Bass 2
350	267	0	65	34	Modulated Bass
351	268	0	0	35	Pick Bass
352	269	0	28	35	Muted Pick Bass
353	270	0	0	36	Fretless Bass
354	271	0	32	36	Fretless Bass 2
355	272	0	33	36	Fretless Bass 3
356	273	0	34	36	Fretless Bass 4
357	-	0	96	36	Syn.Fretless
358	-	0	97	36	SmthFretless
359	274	0	0	37	Slap Bass 1
360	-	0	27	37	ResonantSlap
361	275	0	32	37	Punch Thumb Bass
362	276	0	0	38	Slap Bass 2
363	277	0	43	38	Velocity Switch Slap
364	278	0	0	39	Synth Bass 1
365	-	0	18	39	Synth Bass 1 Dark
366	-	0	20	39	Fast Reso Bass
367	-	0	24	39	Acid Bass
368	-	0	35	39	Clavi Bass
369	-	0	40	39	Techno Synth Bass
370	-	0	64	39	Orbiter
371	-	0	65	39	Square Bass
372	-	0	66	39	Rubber Bass
373	-	0	96	39	Hammer
374	279	0	0	40	Synth Bass 2
375	280	0	6	40	Mellow Synth Bass
376	281	0	12	40	Sequenced Bass

Voice No.		Bank Select		Program Change No. (1-128)	Voice Name
KB-291/ KB-290	KB-191/ KB-190	MSB (0-127)	LSB (0-127)		
377	282	0	18	40	Click Synth Bass
378	283	0	19	40	Synth Bass 2 Dark
379	-	0	32	40	Smooth Synth Bass
380	284	0	40	40	Modular Synth Bass
381	285	0	41	40	DX Bass
382	-	0	64	40	XWire Bass
383	286	0	0	41	Violin
384	287	0	8	41	Slow Violin
385	288	0	0	43	Cello
386	289	0	0	44	Contrabass
387	290	0	0	45	Tremolo Strings
388	291	0	8	45	Slow Tremolo Strings
389	292	0	40	45	Suspense Strings
390	293	0	0	46	Pizzicato Strings
391	294	0	0	47	Orchestral Harp
392	295	0	0	48	Timpani
393	296	0	0	49	Strings 1
394	297	0	3	49	Stereo Strings
395	298	0	8	49	Slow Strings
396	-	0	24	49	Arco Strings
397	299	0	35	49	60's Strings
398	300	0	40	49	Orchestra
399	301	0	41	49	Orchestra 2
400	302	0	42	49	Tremolo Orchestra
401	303	0	45	49	Velocity Strings
402	304	0	0	50	Strings 2
403	305	0	3	50	Stereo Slow Strings
404	306	0	8	50	Legato Strings
405	307	0	40	50	Warm Strings
406	308	0	41	50	Kingdom
407	-	0	64	50	70's Strings
408	-	0	65	50	Strings 3
409	309	0	0	51	Synth Strings 1
410	-	0	27	51	ResoStrings
411	-	0	64	51	Synth Strings 4
412	-	0	65	51	Synth Strings 5
413	310	0	0	52	Synth Strings 2
414	311	0	0	53	Choir Aahs
415	312	0	3	53	Stereo Choir
416	313	0	32	53	Mellow Choir
417	-	0	16	53	Choir Aahs 2
418	314	0	40	53	Choir Strings
419	315	0	0	54	Voice Oohs
420	316	0	0	55	Synth Voice
421	317	0	40	55	Synth Voice 2
422	318	0	41	55	Choral
423	319	0	64	55	Analog Voice
424	320	0	0	56	Orchestra Hit
425	321	0	35	56	Orchestra Hit 2
426	322	0	64	56	Impact
427	323	0	0	57	Trumpet
428	-	0	16	57	Trumpet 2
429	-	0	17	57	Brite Trumpet
430	-	0	32	57	Warm Trumpet
431	324	0	0	58	Trombone
432	325	0	18	58	Trombone 2
433	326	0	0	59	Tuba
434	-	0	16	59	Tuba 2
435	327	0	0	60	Muted Trumpet
436	328	0	0	61	French Horn
437	329	0	6	61	French Horn Solo
438	330	0	32	61	French Horn 2
439	331	0	37	61	Horn Orchestra
440	332	0	0	62	Brass Section
441	333	0	35	62	Trumpet & Trombone Section

Voice List

Voice No.		Bank Select		Program Change No. (1-128)	Voice Name
KB-291/KB-290	KB-191/KB-190	MSB (0-127)	LSB (0-127)		
442	-	0	40	62	Brass Section 2
443	-	0	41	62	High Brass
444	-	0	42	62	Mellow Brass
445	334	0	0	63	Synth Brass 1
446	-	0	12	63	Quack Brass
447	335	0	20	63	Resonant Synth Brass
448	-	0	24	63	Poly Brass
449	-	0	27	63	Synth Brass 3
450	-	0	32	63	Jump Brass
451	-	0	45	63	Ana Vel Brass 1
452	-	0	64	63	Analog Brass 1
453	336	0	0	64	Synth Brass 2
454	-	0	18	64	Soft Brass
455	-	0	40	64	Synth Brass 4
456	-	0	41	64	Choir Brass
457	-	0	45	64	Ana Vel Brass 2
458	-	0	64	64	Analog Brass 2
459	337	0	0	65	Soprano Sax
460	338	0	0	66	Alto Sax
461	-	0	40	66	Sax Section
462	-	0	43	66	Hyper Alto Sax
463	339	0	0	67	Tenor Sax
464	-	0	40	67	Breathy Tenor Sax
465	-	0	41	67	Soft Tenor Sax
466	-	0	64	67	Tenor Sax 2
467	340	0	0	68	Baritone Sax
468	341	0	0	69	Oboe
469	342	0	0	70	English Horn
470	343	0	0	71	Bassoon
471	344	0	0	72	Clarinet
472	345	0	0	73	Piccolo
473	346	0	0	74	Flute
474	347	0	0	75	Recorder
475	348	0	0	76	Pan Flute
476	349	0	0	77	Blown Bottle
477	350	0	0	78	Shakuhachi
478	351	0	0	79	Whistle
479	352	0	0	80	Ocarina
480	353	0	0	81	Square Lead
481	354	0	6	81	Square Lead 2
482	355	0	8	81	LM Square
483	356	0	18	81	Hollow
484	357	0	19	81	Shroud
485	358	0	64	81	Mellow
486	359	0	65	81	Solo Sine
487	360	0	66	81	Sine Lead
488	361	0	0	82	Sawtooth Lead
489	362	0	6	82	Sawtooth Lead 2
490	363	0	8	82	Thick Sawtooth
491	364	0	18	82	Dynamic Sawtooth
492	365	0	19	82	Digital Sawtooth
493	366	0	20	82	Big Lead
494	-	0	24	82	Heavy Synth
495	-	0	25	82	Waspyn Synth
496	-	0	40	82	Pulse Saw
497	-	0	41	82	Dr. Lead
498	-	0	45	82	Velocity Lead
499	367	0	96	82	Sequenced Analog
500	368	0	0	83	Calliope Lead
501	369	0	65	83	Pure Lead
502	370	0	0	84	Chiff Lead
503	-	0	64	84	Rubby
504	371	0	0	85	Charang Lead
505	372	0	64	85	Distorted Lead
506	-	0	65	85	Wire Lead

Voice No.		Bank Select		Program Change No. (1-128)	Voice Name
KB-291/KB-290	KB-191/KB-190	MSB (0-127)	LSB (0-127)		
507	373	0	0	86	Voice Lead
508	-	0	24	86	Synth Aahs
509	-	0	64	86	Vox Lead
510	374	0	0	87	Fifths Lead
511	375	0	35	87	Big Five
512	376	0	0	88	Bass & Lead
513	377	0	16	88	Big & Low
514	378	0	64	88	Fat & Perky
515	379	0	65	88	Soft Whirl
516	380	0	0	89	New Age Pad
517	381	0	64	89	Fantasy
518	382	0	0	90	Warm Pad
519	-	0	16	90	Thick Pad
520	-	0	17	90	Soft Pad
521	-	0	18	90	Sine Pad
522	-	0	64	90	Horn Pad
523	-	0	65	90	Rotary Strings
524	383	0	0	91	Poly Synth Pad
525	-	0	64	91	Poly Pad 80
526	-	0	65	91	Click Pad
527	-	0	66	91	Analog Pad
528	-	0	67	91	Square Pad
529	384	0	0	92	Choir Pad
530	-	0	64	92	Heaven
531	385	0	66	92	Itopia
532	-	0	67	92	CC Pad
533	386	0	0	93	Bowed Pad
534	-	0	64	93	Glacier
535	-	0	65	93	Glass Pad
536	387	0	0	94	Metallic Pad
537	-	0	64	94	Tine Pad
538	-	0	65	94	Pan Pad
539	388	0	0	95	Halo Pad
540	389	0	0	96	Sweep Pad
541	-	0	20	96	Shwimmer
542	-	0	27	96	Converge
543	-	0	64	96	PolarPad
544	-	0	66	96	Celestial
545	390	0	0	97	Rain
546	-	0	45	97	Clavi Pad
547	-	0	64	97	Harmo Rain
548	391	0	65	97	African Wind
549	392	0	66	97	Carib
550	393	0	0	98	Sound Track
551	394	0	27	98	Prologue
552	-	0	64	98	Ancestral
553	395	0	0	99	Crystal
554	396	0	12	99	Synth Drum Comp
555	397	0	14	99	Popcorn
556	398	0	18	99	Tiny Bells
557	399	0	35	99	Round Glockenspiel
558	400	0	40	99	Glockenspiel Chimes
559	401	0	41	99	Clear Bells
560	402	0	42	99	Chorus Bells
561	-	0	64	99	Synth Mallet
562	403	0	65	99	Soft Crystal
563	-	0	66	99	Loud Glocken
564	-	0	67	99	Christmas Bells
565	-	0	68	99	Vibe Bells
566	-	0	69	99	Digital Bells
567	404	0	70	99	Air Bells
568	405	0	71	99	Bell Harp
569	406	0	72	99	Gamelimba
570	407	0	0	100	Atmosphere
571	408	0	18	100	Warm Atmosphere

Voice No.		Bank Select		Program Change No. (1–128)	Voice Name
KB-291/ KB-290	KB-191/ KB-190	MSB (0–127)	LSB (0–127)		
572	409	0	19	100	Hollow Release
573	410	0	40	100	Nylon Electric Piano
574	411	0	64	100	Nylon Harp
575	412	0	65	100	Harp Vox
576	413	0	66	100	Atmosphere Pad
577	-	0	67	100	Planet
578	414	0	0	101	Brightness
579	-	0	64	101	Fantasy Bells
580	-	0	96	101	Smokey
581	415	0	0	102	Goblins
582	416	0	64	102	Goblins Synth
583	417	0	65	102	Creepier
584	-	0	66	102	Ring Pad
585	418	0	67	102	Ritual
586	419	0	68	102	To Heaven
587	420	0	70	102	Night
588	421	0	71	102	Glitten
589	422	0	96	102	Bell Choir
590	423	0	0	103	Echoes
591	-	0	8	103	Echoes 2
592	-	0	14	103	Echo Pan
593	-	0	64	103	Echo Bells
594	-	0	65	103	Big Pan
595	-	0	66	103	Synth Piano
596	-	0	67	103	Creation
597	-	0	68	103	Star Dust
598	-	0	69	103	Reso&Panning
599	424	0	0	104	Sci-Fi
600	-	0	64	104	Starz
601	425	0	0	106	Banjo
602	426	0	35	105	Sitar 2
603	427	0	32	105	Detuned Sitar
604	428	0	0	109	Kalimba
605	429	0	0	110	Bagpipe
606	430	0	0	111	Fiddle
607	-	0	64	112	Shanai 2
608	431	0	0	113	Tinkle Bell
609	432	0	28	106	Muted Banjo
610	433	0	96	113	Bonang
611	434	0	97	113	Altair
612	435	0	98	113	Gamelan Gongs
613	436	0	99	113	Stereo Gamelan Gongs
614	437	0	100	113	Rama Cymbal
615	438	0	101	113	Asian Bells
616	439	0	0	114	Agogo
617	440	0	0	115	Steel Drums
618	441	0	97	115	Glass Percussion
619	442	0	98	115	Thai Bells
620	443	0	0	116	Woodblock
621	444	0	96	116	Castanets
622	445	0	0	117	Taiko Drum
623	446	0	96	117	Gran Cassa
624	447	0	0	118	Melodic Tom
625	-	0	64	118	Melodic Tom 2
626	448	0	65	118	Real Tom
627	449	0	66	118	Rock Tom
628	450	0	0	119	Synth Drum
629	451	0	64	119	Analog Tom
630	452	0	65	119	Electronic Percussion
631	453	0	0	120	Reverse Cymbal
632	454	0	0	121	Fret Noise
633	455	0	0	122	Breath Noise
634	456	0	0	123	Seashore
635	457	0	0	124	Bird Tweet
636	458	0	0	125	Telephone Ring

Voice No.		Bank Select		Program Change No. (1–128)	Voice Name
KB-291/ KB-290	KB-191/ KB-190	MSB (0–127)	LSB (0–127)		
637	459	0	0	126	Helicopter
638	460	0	0	127	Applause
639	461	0	0	128	Gunshot
640	462	64	0	1	Cutting Noise
641	463	64	0	2	Cutting Noise 2
642	464	64	0	4	String Slap
643	465	64	0	17	Flute Key Click
644	466	64	0	33	Shower
645	467	64	0	34	Thunder
646	468	64	0	35	Wind
647	469	64	0	36	Stream
648	470	64	0	37	Bubble
649	471	64	0	38	Feed
650	472	64	0	49	Dog
651	473	64	0	50	Horse
652	474	64	0	51	Bird Tweet 2
653	475	64	0	56	Maou
654	476	64	0	65	Phone Call
655	477	64	0	66	Door Squeak
656	478	64	0	67	Door Slam
657	479	64	0	68	Scratch Cut
658	480	64	0	69	Scratch Split
659	481	64	0	70	Wind Chime
660	482	64	0	71	Telephone Ring 2
661	483	64	0	81	Car Engine Ignition
662	484	64	0	82	Car Tires Squeal
663	485	64	0	83	Car Passing
664	486	64	0	84	Car Crash
665	487	64	0	85	Siren
666	488	64	0	86	Train
667	489	64	0	87	Jet Plane
668	490	64	0	88	Starship
669	491	64	0	89	Burst
670	492	64	0	90	Roller Coaster
671	493	64	0	91	Submarine
672	494	64	0	97	Laugh
673	495	64	0	98	Scream
674	496	64	0	99	Punch
675	497	64	0	100	Heartbeat
676	498	64	0	101	Footsteps
677	499	64	0	113	Machine Gun
678	500	64	0	114	Laser Gun
679	501	64	0	115	Explosion
680	502	64	0	116	Firework
DRUM KIT					
681	-	127	0	88	Power Kit
682	503	127	0	1	Standard Kit 1
683	504	127	0	2	Standard Kit 2
684	505	127	0	9	Room Kit
685	506	127	0	17	Rock Kit
686	507	127	0	25	Electronic Kit
687	-	127	0	59	T8 Kit
688	-	127	0	60	T9 Kit
689	508	127	0	26	Analog Kit
690	509	127	0	113	Dance Kit
691	510	127	0	33	Jazz Kit
692	511	127	0	41	Brush Kit
693	512	127	0	49	Symphony Kit
694	-	126	0	37	Arabic Kit
695	-	126	0	40	Indian Kit 1
696	-	126	0	115	Indian Kit 2
697	-	126	0	41	Cuban Kit

Drum/Key Assignment List

Keyboard Note	Voice Category		CHINA KIT				SE/XG										
	Voice No.	KB-291/KB-290 KB-191/KB-190	30		31		207		208		209						
			23		24		164		165		166						
	MSB/LSB/PC#		126/000/125		127/000/127		126/000/001		126/000/002		126/000/126						
MIDI		China Kit 1		Alternate Group*		China Kit 2		Alternate Group*		SFX Kit 1**		SFX Kit 2**		Wonderland Kit		Alternate Group*	
Note#		Note															
D0	C#0	13	C# -1														
		14	D -1														
	D#0	15	D# -1														
E0		16	E -1														
		17	F -1														
F0		18	F# -1														
G0	F#0	19	G -1														
		20	G# -1														
A0	G#0	21	A -1														
		22	A# -1														
B0	A#0	23	B -1 Da Cha														
		24	C 0 Da Gu mp		2												Leaser Beam
C1	C#1	25	C# 0 Da Gu rim														Leaser Shot
		26	D 0 Da Gu f		2												Water phon
D1	D#1	27	D# 0 Da Gu hand		2												Bubble
E1		28	E 0 Da Gu roll		2												Puddle
		29	F 0 Pai Gu 4														Thunder
F1	F#1	30	F# 0 Pai Gu 4 High														Shower
G1		31	G 0 Pai Gu 3														Beach
		32	G# 0 Pai Gu 3 High														Stream
A1	A#1	33	A 0 Pai Gu 2														Footsteps
		34	A# 0 Pai Gu 2 High														Door Squeak
B1		35	B 0 Pai Gu 1														Door Slam
		36	C 1 Luo High 1						Cutting Noise		Phone Call						Bass Drum
C2	C#2	37	C# 1 Gong batter						Cutting Noise 2		Door Squeak						Gran Cassa
D2		38	D 1 Jin Luo								Door Slam						Tom 2
	D#2	39	D# 1 Luo High 2						String Slap		Scratch Cut						Tom 1
E2		40	E 1 Luo Mid-Low								Scratch H 3						Snare
		41	F 1 Luo								Wind Chime						Snare Roll
F2	F#2	42	F# 1 Jin Luo Low		5						Telephone Ring 2						Hi-Hat Closed
G2		43	G 1 Da Cha		5												2
	G#2	44	G# 1 Da Cha effect		5												Hand Cymbal
A2		45	A 1 Zhong Cha														Hi-Hat Open
	A#2	46	A# 1 Xiao Cha effect		1												2
B2		47	B 1 Xiao Cha		1												Tambourine
		48	C 2 Mang Luo Low														Finger Snap
C3	C#3	49	C# 2 Mang Luo Mid														Castanet
D3		50	D 2 Qing														Triangle Mute
	D#3	51	D# 2 Finger Bell														3
E3		52	E 2 Luo big														Wood Block L
		53	F 2 Mu Yu Low						Flute Key Click		Car Engine Ignition						3
F3	F#3	54	F# 2 Mu Yu Mid-Low								Car Tires Squeal						Wood Block H
G3		55	G 2 Mu Yu Mid								Car Passing						Handclap
	G#3	56	G# 2 Mu Yu High								Car Crash						Jingle Bell
A3	A#3	57	A 2 Nan Bang Zi roll		3						Siren						Bell Tree
		58	A# 2 Nan Bang Zi		3						Train						Alarm Bell
B3		59	B 2 Ban Gu		4						Jet Plane						Train
		60	C 3 Ban		4						Starship						Horn 1
C4	C#4	61	C# 3 Ban Gu roll		4						Burst						Horn 2
		62	D 3 Chinese Opera Voice 1								Roller Coaster						Siren
D4	D#4	63	D# 3 Chinese Opera Voice 2								Submarine						Car Engine Ignition
E4		64	E 3 Chinese Opera Voice 3														Car Crash
		65	F 3 Yun Luo F4														Helicopter
F4	F#4	66	F# 3 Yun Luo F#4														Starship
G4		67	G 3 Yun Luo G4				Dagu Mute	4									Sheep
	G#4	68	G# 3 Yun Luo G#4				Zhongcha Mute	5	Shower		Laugh						Goat
A4		69	A 3 Yun Luo A4				Dagu Heavy	4	Thunder		Scream						Oxen
	A#4	70	A# 3 Yun Luo A#4				Zhongcha Open	5	Wind		Punch						Whinny
B4		71	B 3 Yun Luo B4				Paigu Middle		Stream		Heartbeat						Horse
		72	C 4 Yun Luo C5				Paigu Low		Bubble		Footeps						Lion
C5	C#5	73	C# 4 Yun Luo C#5				Xiaocha Mute	6	Feed								Dog
D5		74	D 4 Yun Luo D5				Bangu										Cat
	D#5	75	D# 4 Yun Luo D#5				Xiaocha Open	6									Hen
E5		76	E 4 Yun Luo E5				Bangzi										Owl
		77	F 4 Yun Luo F5				Muyu Low										Insects
F5	F#5	78	F# 4 Yun Luo F#5				Zhongluo Mute	7									Frog
G5		79	G 4 Yun Luo G5				Muyu Mid-Low										Bird Tweet 1
	G#5	80	G# 4 Yun Luo G#5				Zhongluo Open	7									Bird Tweet 2
A5		81	A 4 Yun Luo A5				Muyu Middle										CuckooClock
	A#5	82	A# 4 Yun Luo A#5				Xiaoluo Open										Big Clock
B5		83	B 4 Yun Luo B5				Triangle Mute	8									Bell
		84	C 5 Yun Luo C6				Triangle Open	8	Dog		Machine Gun						Telephone
C6	C#6	85	C# 5						Horse		Laser Gun						Camera
		86	D 5						Bird Tweet 2		Explosion						Gnaw
D6	D#6	87	D# 5								Firework						Applause
E6		88	E 5														
		89	F 5														
F6	F#6	90	F# 5														
G6		91	G 5					Maou									

* Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

** Actual Keyboard Notes of the SFX Kit 1 and 2 are one octave lower than the ones described in the above list.

█ : Same as Standard Kit 1 (Voice No. 682)

Drum/Key Assignment List

Keyboard Note	Voice Category				DRUM KIT				
	Voice No.		MSB/LSB/PC#		681	682	683	684	685
	KB-291/KB-290 KB-191/KB-190				-	503	504	505	506
					127/000/088	127/000/001	127/000/002	127/000/009	127/000/017
	MidI Note#	Note	Key Off*	Alternate Group*	Power Kit	Standard Kit 1	Standard Kit 2	Room Kit	Rock Kit
D0	C#0	13	C# -1		3	Surdo Mute			
	D0	14	D -1		3	Surdo Open			
E0	D#0	15	D# -1			Hi Q			
	F0	16	E -1			Whip Slap			
F0	F#0	17	F -1		4	Scratch H			
	G0	18	F# -1		4	Scratch L			
G0	G#0	19	G -1			Finger Snap			
	A0	20	G# -1			Click Noise			
A0	A#0	21	A -1			Metronome Click			
	B0	22	A# -1			Metronome Bell			
B0	C#1	23	B -1			Seq Click L			
	C1	24	C 0			Seq Click H			
C1	C#1	25	C# 0			Brush Tap			
	D1	26	D 0	O		Brush Swirl			
D1	D#1	27	D# 0			Brush Slap			
	E1	28	E 0	O		Brush Tap Swirl			
E1	F#1	29	F 0	O		Snare Roll			
	F1	30	F# 0			Castanet			
F1	G#1	31	G 0			Snare Soft Power 1	Snare Soft	Snare Soft 2	Snare Noisy
	G1	32	G# 0			Sticks			
G1	A#1	33	A 0			Kick Soft			
	A1	34	A# 0			Kick Amb+			
A1	B#1	35	B 0			Open Rim Power 1	Open Rim Shot	Open Rim Shot H Short	
	B1	36	B 0			Kick Power Open	Kick Tight		Kick 2
B1	C#2	36	C 1			Kick Power Closed	Kick	Kick Short	Kick Gate
	C2	37	C# 1			Side Stick Power	Side Stick	Side Stick Light	
C2	D#2	38	D 1			Snare Power	Snare	Snare Short	Snare Snappy
	D2	39	D# 1			Hand Clap Power	Hand Clap		Snare Rock
D2	E#2	40	E 1			Snare Rough	Snare Tight	Snare Tight H	Snare Rock Tight
	F2	41	F 1			Tom Power 1	Floor Tom L	Tom Room 1	Tom Rock 1
F2	G#2	42	F# 1	1		Hi-Hat Closed Power	Hi-Hat Closed		
	G2	43	G 1			Tom Power 2	Floor Tom H	Tom Room 2	Tom Rock 2
G2	A#2	44	G# 1	1		Hi-Hat Pedal Power	Hi-Hat Pedal		
	A2	45	A 1			Tom Power 3	Low Tom	Tom Room 3	Tom Rock 3
A2	B#2	46	A# 1	1		Hi-Hat Open Power	Hi-Hat Open		
	B2	47	B 1			Tom Power 4	Mid Tom L	Tom Room 4	Tom Rock 4
B2	C#3	48	C 2			Tom Power 5	Mid Tom H	Tom Room 5	Tom Rock 5
	C3	49	C# 2			Crash Cymbal Acoustic 1	Crash Cymbal 1		
C3	D#3	50	D 2			Tom Power 6	High Tom	Tom Room 6	Tom Rock 6
	D3	51	D# 2			Ride Cymbal Acoustic 1	Ride Cymbal 1		
D3	E#3	52	E 2			Chinese Cymbal Acoustic	Chinese Cymbal		
	E3	53	F 2			Ride Cymbal Acoustic	Ride Cymbal Cup		
E3	F#3	54	F# 2				Tambourine		
	F3	55	G 2			Splash Cymbal Acoustic	Splash Cymbal		
F3	G#3	56	G# 2				Cowbell		
	G3	57	A 2			Crash Cymbal Acoustic 2	Crash Cymbal 2		
G3	A#3	58	A# 2				Vibraslap		
	A3	59	B 2			Ride Cymbal Acoustic 2	Ride Cymbal 2		
A3	C#4	60	C 3				Bongo H		
	C4	61	C# 3				Bongo L		
C4	D#4	62	D 3				Conga H Mute		
	D4	63	D# 3				Conga H Open		
D4	E#4	64	E 3				Conga L		
	E4	65	F 3				Timbale H		
E4	F#4	66	F# 3				Timbale L		
	F4	67	G 3				Agogo H		
F4	G#4	68	G# 3				Agogo L		
	G4	69	A 3				Cabasa		
G4	A#4	70	A# 3				Maracas		
	A4	71	B 3	O			Samba Whistle H		
A4	B#4	72	C 4	O			Samba Whistle L		
	B4	73	C# 4				Guiro Short		
B4	C#5	74	D 4	O			Guiro Long		
	C5	75	D# 4				Claves		
C5	D#5	76	E 4				Wood Block H		
	D5	77	F 4				Wood Block L		
D5	E#5	78	F# 4				Cuica Mute		
	E5	79	G 4				Cuica Open		
E5	F#5	80	G# 4		2		Triangle Mute		
	F5	81	A 4		2		Triangle Open		
F5	G#5	82	A# 4				Shaker		
	G5	83	B 4				Jingle Bells		
G5	A#5	84	C 5				Bell Tree		
	A5	85	C# 5						
A5	B#5	86	D 5						
	B5	87	D# 5						
B5	C#6	88	E 5						
	C6	89	F 5						
C6	D#6	90	F# 5						
	D6	91	G 5						

* Key Off: Keys marked "O" stop sounding the instant they are released.

* Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

: Same as Standard Kit 1 (Voice No. 682)

Drum/Key Assignment List

Keyboard Note	Voice Category				DRUM KIT					
	Voice No.		686		687		688		689	
	KB-291/KB-290 KB-191/KB-190		507		-		-		508	
	MSB/LSB/PC#		127/000/025		127/000/059		127/000/060		127/000/026	
	MI	Key Off*	Alternate Group*	Electronic Kit	T8 Kit	T9 Kit	Analog Kit	Dance Kit		
	Note#	Note								
D0	C#0	13	C# -1							
		14	D -1							
E0	D#0	15	D# -1							
		16	E -1							
F0	F#0	17	F -1							
		18	F# -1							
G0	G#0	19	G -1							
		20	G# -1							
A0	A#0	21	A -1							
		22	A# -1							
B0	B#0	23	B -1							
		24	C 0							
C1	C#1	25	C# 0							
		26	D 0							
D1	D#1	27	D# 0							
		28	E 0							
E1	F#1	29	F 0							
		30	F# 0							
F1	G#1	31	G 0							
		32	G# 0							
G1	A#1	33	A 0							
		34	A# 0							
A1	B#1	35	B 0							
		36	C 1							
B1	C#2	37	C# 1							
		38	D 1							
C1	D#2	39	D# 1							
		40	E 1							
D1	F#2	41	F 1							
		42	F# 1							
E1	G#2	43	G 1							
		44	G# 1							
F1	A#2	45	A 1							
		46	A# 1							
G1	B#2	47	B 1							
		48	C 2							
A1	C#3	49	C# 2							
		50	D 2							
B1	D#3	51	D# 2							
		52	E 2							
C1	F#3	53	F 2							
		54	F# 2							
D1	G#3	55	G 2							
		56	G# 2							
E1	A#3	57	A 2							
		58	A# 2							
F1	B#3	59	B 2							
		60	C 3							
G1	C#4	61	C# 3							
		62	D 3							
A1	D#4	63	D# 3							
		64	E 3							
B1	F#4	65	F 3							
		66	F# 3							
C1	G#4	67	G 3							
		68	G# 3							
D1	A#4	69	A 3							
		70	A# 3							
E1	B#4	71	B 3							
		72	C 4							
F1	C#5	73	C# 4							
		74	D 4							
G1	D#5	75	D# 4							
		76	E 4							
A1	F#5	77	F 4							
		78	F# 4							
B1	G#5	79	G 4							
		80	G# 4							
C1	A#5	81	A 4							
		82	A# 4							
D1	B#5	83	B 4							
		84	C 5							
E1	C#6	85	C# 5							
		86	D 5							
F1	D#6	87	D# 5							
		88	E 5							
G1	F#6	89	F 5							
		90	F# 5							
A1	G#6	91	G 5							

* Key Off: Keys marked "O" stop sounding the instant they are released.

* Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

: Same as Standard Kit 1 (Voice No. 682)

Keyboard Note	Voice Category				DRUM KIT		
	Voice No.	KB-291/KB-290	KB-191/KB-190		691	692	693
					510	511	512
	MSB/LSB/PC#				127/000/033	127/000/041	127/000/049
	MI	DI	Key Off*	Alternate Group*	Jazz Kit	Brush Kit	Symphony Kit
	Note#	Note					
C#0	13	C# -1		3			
D0	14	D -1		3			
D#0	15	D# -1					
E0	16	E -1					
F0	17	F -1		4			
F#0	18	F# -1		4			
G0	19	G -1					
G#0	20	G# -1					
A0	21	A -1					
A#0	22	A# -1					
B0	23	B -1					
C1	24	C 0					
C#1	25	C# 0					
D1	26	D 0	O				
D#1	27	D# 0					
E1	28	E 0	O				
F1	29	F 0	O				
F#1	30	F# 0					
G1	31	G 0			Snare Jazz H	Brush Slap 2	
G#1	32	G# 0					
A1	33	A 0					Kick Soft 2
A#1	34	A# 0				Open Rim Shot Light	
B1	35	B 0					Gran Cassa
C2	36	C 1			Kick Jazz	Kick Jazz	Gran Cassa Mute
C#2	37	C# 1			Stick Light	Stick Light	
D2	38	D 1			Snare Jazz L	Brush Slap 3	Band Snare
D#2	39	D# 1					
E2	40	E 1			Snare Jazz M	Brush Tap 2	Band Snare 2
F2	41	F 1			Tom Jazz 1	Tom Brush 1	Tom Jazz 1
F#2	42	F# 1		1			
G2	43	G 1			Tom Jazz 2	Tom Brush 2	Tom Jazz 2
G#2	44	G# 1		1			
A2	45	A 1			Tom Jazz 3	Tom Brush 3	Tom Jazz 3
A#2	46	A# 1		1			
B2	47	B 1			Tom Jazz 4	Tom Brush 4	Tom Jazz 4
C3	48	C 2			Tom Jazz 5	Tom Brush 5	Tom Jazz 5
C#3	49	C# 2					Hand Cymbal
D3	50	D 2			Tom Jazz 6	Tom Brush 6	Tom Jazz 6
D#3	51	D# 2					Hand Cymbal Short
E3	52	E 2					
F3	53	F 2					
F#3	54	F# 2					
G3	55	G 2					
G#3	56	G# 2					
A3	57	A 2					Hand Cymbal 2
A#3	58	A# 2					
B3	59	B 2					Hand Cymbal 2 Short
C4	60	C 3					
C#4	61	C# 3					
D4	62	D 3					
D#4	63	D# 3					
E4	64	E 3					
F4	65	F 3					
F#4	66	F# 3					
G4	67	G 3					
G#4	68	G# 3					
A4	69	A 3					
A#4	70	A# 3					
B4	71	B 3	O				
C5	72	C 4	O				
C#5	73	C# 4					
D5	74	D 4	O				
D#5	75	D# 4					
E5	76	E 4					
F5	77	F 4					
F#5	78	F# 4					
G5	79	G 4					
G#5	80	G# 4		2			
A5	81	A 4		2			
A#5	82	A# 4					
B5	83	B 4					
C6	84	C 5					
C#6	85	C# 5					
D6	86	D 5					
D#6	87	D# 5					
E6	88	E 5					
F6	89	F 5					
F#6	90	F# 5					
G6	91	G 5					

* Key Off: Keys marked "O" stop sounding the instant they are released.

* Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

: Same as Standard Kit 1 (Voice No. 682)

Drum/Key Assignment List

Keyboard Note	Voice Category		DRUM KIT					
	Voice No.	KB-291/KB-290 KB-191/KB-190	694	695	696	697		
	MSB/LSB/PC#	MIDI	126/000/037	126/000/040	126/000/115	126/000/041		
	Note#	Note	Arabic Kit	Indian Kit 1	Alternate Group*	Indian Kit 2	Alternate Group*	Cuban Kit
D0	C#0	13	C# -1	Zarb Back mf				
	D#0	14	D -1	Zarb Tom f				
E0	E#0	15	D# -1	Zarb Eshareh			Indian Hand Clap	
F0	F#0	16	E -1	Zarb Whipping			Daffi Slap	
G0	G#0	17	F -1	Tombak Tom f			Daffi Rim	1
A0	A#0	18	F# -1	Negharah Tom f			Duff Open	1
B0	B#0	19	G -1	Tombak Back f			Duff Slap	
C1	C#1	20	G# -1	Negharah Back f			Duff Rim	
D1	D#1	21	A -1	Tombak Snap f			Hatheli Long	2
E1	E#1	22	A# -1	Negharah Pelang f	Hateli Long		Hatheli Short	2
F1	F#1	23	B -1	Tombak Trill	Hateli Short			Conga H Heel
G1	G#1	24	C 0	Khaligi Clap 1	Baya ge	1	Baya ge	3
A1	A#1	25	C# 0	Arabic Zalgotoua Open	Baya ke	1	Baya ke	3
B1	B#1	26	D 0	Khaligi Clap 2	Baya ghe	1	Baya ghe	3
C2	C#2	27	D# 0	Arabic Zalgotoua Close	Baya ka	1	Baya ka	3
D2	D#2	28	E 0	Arabic Hard Clap	Tabla na	2	Tabla na	4
E2	E#2	29	F 0	Tabel Tak 1	Tabla tin	2	Tabla tin	4
F2	F#2	30	F# 0	Sagat 1	Tablabaya dha	1	Tablabaya dha	3
G2	G#2	31	G 0	Tabel Dom	Tabla tun	2	Dhol 1 Open	5
A2	A#2	32	G# 0	Sagat 2	Tablabaya dhin	1	Dhol 1 Slap	5
B2	B#2	33	A 0	Tabel Tak 2	Tabla di	2	Dhol 1 Mute	5
C3	C#3	34	A# 0	Sagat 3	Tablabaya dhe	1	Dhol 1 Open Slap	5
D3	D#3	35	B 0	Riq Tik 3	Tabla ti	2	Dhol 1 Roll	6
E3	E#3	36	C 1	Riq Tik 2	Tabla ne	2	Dandia Short	6
F3	F#3	37	C# 1	Riq Tik Hard 1	Tabla taran	2	Dandia Long	6
G3	G#3	38	D 1	Riq Tik 1	Tabla tak	2	Chutki	6
A3	A#3	39	D# 1	Riq Tik Hard 2	Chipri		Bongo H Rim	
B3	B#3	40	E 1	Riq Tik Hard 3	Kanjira Open	3	Bongo H Heel	
C4	C#4	41	F 1	Riq Tish	Kanjira Slap	3	Bongo H Slap	
D4	D#4	42	F# 1	Riq Snouj 2	Kanjira Mute	3	Bongo L Open 1 finger	
E4	E#4	43	G 1	Riq Roll	Kanjira Bend up	3	Bongo L Open 3 finger	
F4	F#4	44	G# 1	Riq Snouj 1	Kanjira Bend down	3	Bongo L Rim	
G4	G#4	45	A 1	Riq Sak	Dholak Open	4	Bongo L Tip	
A4	A#4	46	A# 1	Riq Snouj 3	Dholak Mute	4	Bongo L Heel	
B4	B#4	47	B 1	Riq Snouj 4	Dholak Slap	4	Bongo L Slap	
C5	C#5	48	C 2	Riq Tak 1	Dhol Open	5	Timbale L Open	
D5	D#5	49	C# 2	Riq Brass 1	Dhol Mute	5		
E5	E#5	50	D 2	Riq Tak 2	Dhol Slap	5		
F5	F#5	51	D# 2	Riq Brass 2	Dhol Slide	5		
G5	G#5	52	E 2	Riq Dom	Mridangam Normal	6		
A5	A#5	53	F 2	Katem Tak Doff	Mridangam Open	6		
B5	B#5	54	F# 2	Katem Dom	Mridangam Mute	6		
C6	C#6	55	G 2	Katem Sak 1	Mridangam Slap	6		
D6	D#6	56	G# 2	Katem Tak 1	Mridangam Rim	6		
E6	E#6	57	A 2	Katem Sak 2	Chimta Open	7		
F6	F#6	58	A# 2	Katem Tak 2	Chimta Normal	7		
G6	G#6	59	B 2	Daholla Sak 2	Chimta Ring	7		
A6	A#6	60	C 3	Daholla Sak 1	Dholki Open	8		
B6	B#6	61	C# 3	Daholla Tak 1	Dholki Mute	8		
C7	C#7	62	D 3	Daholla Dom	Dholki Slap	8		
D7	D#7	63	D# 3	Daholla Tak 2	Dholki Slide	8		
E7	E#7	64	E 3	Tablah Prok	Dholki Rim	8		
F7	F#7	65	F 3	Tablah Dom 2	Khol Open	9		
G7	G#7	66	F# 3	Tablah Roll of Edge	Khol Slide	9		
A7	A#7	67	G 3	Tablah Tak Finger 4	Khol Mute	9		
B7	B#7	68	G# 3	Tablah Tak Trill 1	Manjira Open	10		
C8	C#8	69	A 3	Tablah Tak Finger 3	Manjira Close	10		
D8	D#8	70	A# 3	Tablah Tak Trill 2	Jhanji Open	11		
E8	E#8	71	B 3	Tablah Tak Finger 2	Jhanji Close	11		
F8	F#8	72	C 4	Tablah Tak Finger 1	Mondira Open	12		
G8	G#8	73	C# 4	Tablah Tik 2	Mondira Close	12		
A8	A#8	74	D 4	Tablah Tik 4	Mridang Open	13		
B8	B#8	75	D# 4	Tablah Tik 3	Mridang Mute	13		
C9	C#9	76	E 4	Tablah Tik 1	Mridang Rim	13		
D9	D#9	77	F 4	Tablah Tak 3	Mridang Slide	13		
E9	E#9	78	F# 4	Tablah Tak 1	Khomokh Normal			
F9	F#9	79	G 4	Tablah Tak 4	Khomokh Mute			
G9	G#9	80	G# 4	Tablah Tak 2	Khomokh Mitak			
A9	A#9	81	A 4	Tablah Sak 2	Madal-A2			
B9	B#9	82	A# 4	Tablah Tremolo	Madal-A#2			
C10	C#10	83	B 4	Tablah Sak 1	Madal-B2			
D10	D#10	84	C 5	Tablah Dom 1	Madal-C3			
E10	E#10	85	C# 5		Madal-C#3			
F10	F#10	86	D 5		Madal-D3			
G10	G#10	87	D# 5		Madal-D#3			
A10	A#10	88	E 5		Madal-E3			
B10	B#10	89	F 5		Madal-F3			
C11	C#11	90	F# 5		Madal-F#3			
D11	D#11	91	G 5		Madal-G3			

* Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

: Same as Standard Kit 1 (Voice No. 682)

Style List

Style No.		Style Name
KB-291/KB-290	KB-191/KB-190	
8BEAT		
001	001	8Beat
002	002	BritPopRock
003	003	8BeatModern
004	004	60sGuitarPop
005	005	8BeatAdria
006	006	60s8Beat
007	007	OffBeat
008	-	Cool8Beat
009	-	BubblegumPop
010	-	BritPopSwing
16BEAT		
011	008	16Beat
012	009	16BeatUptempo
013	010	GuitarPop
014	-	JazzRock
015	011	HipHopLight
BALLAD		
016	012	Ballad
017	013	70sGlamPiano
018	014	PopGtrBallad
019	015	LoveSong
020	016	OrganBallad
021	017	PopBallad
022	018	16BeatBallad1
023	-	16BeatBallad2
024	-	6/8OrchBallad
SLOWROCK		
025	019	SlowRock
026	020	6/8SlowRock
027	021	6/8Soul
028	022	6/8Blues
ROCK		
029	023	Rock
030	024	BluesRock
031	025	HardRock
032	026	60sRock
033	027	8BeatRock
034	028	Soul
035	029	DetroitPop1
036	030	CrocoTwist
037	031	Rock&Roll
038	-	DetroitPop2
039	-	BoogieWoogie
040	032	RockShuffle
041	033	ComboBoogie
042	-	ModernR&B
SWING&JAZZ		
043	034	Swing1
044	035	Swing2
045	036	BigBandFast
046	037	BigBandMedium
047	038	BigBandBallad
048	039	BigBandShuffle
049	040	AcousticJazz
050	041	AcidJazz
051	042	JazzClub
052	043	Five/Four
053	044	JazzBallad
054	045	Dixieland
055	046	Ragtime
056	-	AfroCuban
057	-	Charleston
058	-	OrchestraSwing
059	047	ChristmasSwing
DISCO		
060	048	Disco1
061	049	Disco2
062	050	ModernDisco
063	051	LatinDisco

Style No.		Style Name
KB-291/KB-290	KB-191/KB-190	
064	052	DiscoPhilly
065	053	SaturdayNight
066	054	DiscoChocolate
067	055	DiscoHands
068	056	AgagBeat
069	057	WCoastDance
070	058	ClubBeat
071	059	Electronica
072	060	FunkyHouse
073	061	ChartR&B
074	062	MellowHipHop
075	063	SoulR&B
076	064	R&BSoulBallad
077	065	Chillout
078	066	EuroTrance
079	067	Ibiza
080	068	HouseMusik
081	069	SwingHouse
082	-	TechnoPolis
083	070	Clubdance
084	071	ClubLatin
085	072	Garage1
086	-	Garage2
087	073	TechnoParty
088	074	UKPop
089	075	HipHopGroove
090	076	HipShuffle
091	077	HipHopPop
092	-	NewHipHop
093	-	PopR&B
094	-	TrancePop
095	-	ChartPop
096	-	DreamDance
BEGUINE		
097	078	Beguine
098	079	ChaChaCha
099	080	Reggae
100	-	PopShuffle1
101	081	PopShuffle2
102	082	KoolShuffle
CHINA POP		
103	083	China Dance
104	084	China Pop Ballad 1
105	-	China Pop Ballad 2
106	-	China Pop Ballad 3
107	085	China 6/8 Slow Rock
108	086	China Rock
109	-	Kung Fu
110	087	West China Pop
111	-	2 Person Opera
112	-	Beijing Funk
CHINA STANDARD		
113	088	Xi Qing Luo Gu
114	-	Zhong Guo Gu Qu
115	089	Dong Bei Yang Ge
116	-	Yao Zu Min Ge
117	-	Chao Xian Min Ge
118	-	Zang Zu Min Ge
119	090	Yi Zu Min Ge
120	091	Xin Jiang Min Ge
121	-	Guang Dong Wu Shi
122	092	Jing Ju Jie Zou
RUMBA		
123	093	Rumba
124	094	GuitarRumba
125	095	RumbaFlamenco
126	096	Rumbalsland
127	097	Mambo
128	098	Slowfox
129	099	Foxtrot

Style No.		Style Name
KB-291/KB-290	KB-191/KB-190	
130	100	Quickstep
131	101	Jive
132	102	Pasodoble
TANGO		
133	103	Tango
BOSSANOVA		
134	104	BossaNova
135	-	PopBossa
SAMBA		
136	105	Samba
137	106	BrazilianSamba
138	107	Salsa
139	108	Tijuana
140	-	DiscoLatin
MARCH		
141	109	March
142	110	6/8March
143	111	GermanMarch
144	112	Tarantella
145	113	Showtune
146	114	Learning2/4
147	115	Learning4/4
148	116	Learning6/8
149	117	Fun 4/4
POLKA		
150	118	Polka
151	119	OberPolka
WALTZ		
152	120	Waltz
153	121	VienneseWaltz
154	122	GuitarSerenade
155	123	SwingWaltz
156	124	MariachiWaltz
157	125	JazzWaltz1
158	-	JazzWaltz2
159	126	CountryWaltz
160	127	OberWaltzer
161	128	Musette
162	129	ChristmasWaltz
163	130	EnglishWaltz
164	-	Fun 3/4
COUNTRY		
165	131	Country
166	132	Country2/4
167	133	Country8Beat
168	134	CountryPop
169	135	CountrySwing
170	136	CowboyBoogie
171	137	CountryShuffle
172	-	CountryBallad
173	138	ScottishReel
174	-	Hawaiian
METRONOME		
175	139	Metronome4/4
176	140	Metronome3/4
177	141	Metronome2/4
PIANIST		
178	142	Pianist
179	143	Stride
180	144	PianoBlues2
181	145	PianoRag
182	146	Arpeggio
183	147	SlowRock
184	148	8BtPianoBallad
185	149	PianoSwing
186	150	PianoJazzBld
187	-	PianoBlues1
188	-	PianoBoogie
189	-	PianoJazzWaltz
190	-	PianoRock&Roll

Effect Type List

Reverb Types






















No.	Reverb Type	Description
01–03	Hall 1–3	Concert hall reverb.
04–05	Room 1–2	Small room reverb.
06–07	Stage 1–2	Reverb for solo instruments.
08–09	Plate 1–2	Simulated steel plate reverb.
10	Ultra-Wide Stereo	This produces a spacious, dynamic sound effect that gives you the sensation of hearing the sound outside of the speakers.
11	Off	No effect.

* Ultra-Wide Stereo cannot be recorded, although other types of Reverb effects can be recorded.

Chorus Types

No.	Chorus Type	Description
1–2	Chorus 1–2	Conventional chorus program with rich, warm chorusing.
3–4	Flanger 1–2	This produces a rich, animated wavering effect in the sound.
5	Off	No effect.

Harmony Types

No.	Harmony Type	Description	
01	Duet	If you want to sound one of the harmony types 01–05, play keys to the right side of the Split Point while playing chords in the left side of the keyboard after turning Auto Accompaniment on. One, two or three notes of harmony are automatically added to the note you play. When playing back a Song that includes chord data, harmony is applied whichever keys are played.	
02	Trio		
03	Block		
04	Country		
05	Octave		
06	Trill 1/4 note		If you keep holding down two different notes, the notes alternate (in a trill) continuously.
07	Trill 1/6 note		
08	Trill 1/8 note		
09	Trill 1/12 note		
10	Trill 1/16 note		
11	Trill 1/24 note		
12	Trill 1/32 note		If you keep holding down a single note, the note is repeated continuously. (The repeat speed differs depending on the selected type.)
13	Tremolo 1/4 note		
14	Tremolo 1/6 note		
15	Tremolo 1/8 note		
16	Tremolo 1/12 note		
17	Tremolo 1/16 note		
18	Tremolo 1/24 note		If you keep holding down a note, echo is applied to the note played. (The echo speed differs depending on the selected type.)
19	Tremolo 1/32 note		
20	Echo 1/4 note		
21	Echo 1/6 note		
22	Echo 1/8 note		
23	Echo 1/12 note		
24	Echo 1/16 note		
25	Echo 1/24 note		
26	Echo 1/32 note		

Arpeggio Type List (KB-291/KB-290)

No.	Arpeggio Type
001	UpOct
002	DownOct
003	UpDwnOct
004	SynArp1
005	SynArp2
006	SynArp3
007	SynArp4
008	SyncEcho
009	PulsLine
010	StepLine
011	Random
012	Down&Up
013	SuperArp
014	AcidLine
015	TekEcho
016	VelGruv
017	Planet
018	Trance1
019	Trance2
020	Trance3
021	ChordAlt
022	SynChrd1
023	SynChrd2
024	Syncopa
025	Hybrid1
026	Hybrid2
027	Hybrid3
028	Hybrid4
029	Hybrid5
030	PfArp1
031	PfArp2
032	PfArp3
033	PfArp4
034	PfClub1
035	PfClub2
036	PfBallad
037	PfChd8th
038	EPArp
039	PfShuffle
040	PfRock
041	Clavi1
042	Clavi2
043	RocknPf
044	70RockPf
045	SlowflPf
046	SoulPf
047	ChordUp
048	ChdDance
049	LatinRck
050	Salsa1
051	Salsa2
052	Reggae1
053	Reggae2
054	Reggae3
055	6/8R&B
056	Gospel
057	BalladEP
058	Strum1
059	Strum2

No.	Arpeggio Type
060	Strum3
061	Strum4
062	Pickin1
063	Pickin2
064	Funky
065	GtrChrd1
066	GtrChrd2
067	GtrChrd3
068	GtrArp
069	FngrPck1
070	FngrPck2
071	CleanGtr
072	Slowfl
073	Samba1
074	Samba2
075	Spanish1
076	Spanish2
077	Harp1
078	Harp2
079	FngrBas1
080	FngrBas2
081	FngrBas3
082	CoolFunk
083	SlapBass
084	AcidBas1
085	AcidBas2
086	FunkyBas
087	CmbJazB1
088	CmbJazB2
089	CmbJazB3
090	NewR&BBs
091	HipHopBs
092	SmoothBs
093	DreamBas
094	TranceBs
095	LatinBas
096	Strings1
097	Strings2
098	Strings3
099	Strings4
100	StrngDwn
101	StrngUp
102	OrcheStr
103	Jupiter
104	Pizz1
105	Pizz2
106	BrasSec1
107	BrasSec2
108	BrasSec3
109	FunkBras
110	SoulReed
111	DiscoLd
112	SmoothPd
113	PercArp
114	Trill
115	Cresendo
116	DiscoCP
117	Perc1
118	Perc2

No.	Arpeggio Type
119	R&B
120	Funk1
121	Funk2
122	Funk3
123	Soul
124	ClscHip
125	Smooth
126	NewGospl
127	CmbJazz1
128	CmbJazz2
129	Bebop
130	JazzHop
131	FolkRock
132	Unplugge
133	HipHop
134	Trance
135	Dream
136	2 Step
137	ClubHs1
138	ClubHs2
139	EuroTek
140	House
141	Ibiza1
142	Ibiza2
143	Ibiza3
144	Garage
145	Samba
146	African
147	Latin
148	China
149	Indian
150	Arabic

Arpeggio Types for the Drum Kits and China Kits

If you are using one of the Arpeggio types No. 117 – 150 created for the Drum Kits and China Kits follow the instructions below.

- 1) Select a Main Voice from Voices No.210 – 219.
- 2) Turn on Split (page 15).
- 3) Select a Split Voice from Drum Kits or China Kits (page 15).
- 4) Select an Arpeggio Type on the Function display (page 33).

For the Arpeggio Types No. 148 – 150, make sure to select the specific Kit as listed below.


Arpeggio Type	Voice number (Select as a Split Voice)
No. 148 China	No. 30 China Kit 1
No. 149 Indian	No. 695 Indian Kit 1
No. 150 Arabic	No. 694 Arabic Kit

Message List

KB-291/KB-290/KB-191/KB-190

Message	Description
<i>Complet.</i>	Indicates that the specified job, such as data saving or deleting, has been completed.
<i>Can'tUse</i>	Indicates the function is currently unavailable since another function is being used.
<i>FlashErr</i>	Failed to save the data between the instrument and the computer.
<i>Mem Full</i>	Displayed when the internal memory becomes full during recording. To free up more memory space for recording, execute the Song Clear or Track Clear operation (page 27).
<i>Overwr?</i>	The selected file name already contains data. This message prompts you to overwrite the existing data with new data. Press the [+ / YES] button to proceed, or press the [- / NO] button to cancel.
<i>Sure?</i>	This message prompts you for confirmation of the operation. Press the [+ / YES] button to execute, or press the [- / NO] button to cancel.
<i>Writing!</i>	The data is being saved to the instrument. Do not shut off the power to the instrument when this message is shown. Doing so may result in a loss of data.

KB-291/KB-290

Message	Description
<i>Disk Full</i>	Displayed when a data saving operation cannot be executed, due to the memory of the USB storage device being full.
<i>Empty</i>	Displayed when trying to select a Song in the USB storage device, but the instrument cannot find any compatible data on the device.
<i>Error!</i>	Communication with the USB storage device has failed. If the message appears even when the USB storage device is connected properly, the device may be damaged or may not be supported on this instrument.
<i>No data</i>	Displayed when Style No. 191 (page 43) is selected but there is no data to play.
<i>no data</i>	There is no data in the instrument that can be saved to the USB storage device.
<i>no file</i>	There is no file in the USB storage device that can be loaded or deleted.
<i>NoMedia</i>	No USB storage device was connected to the instrument when the [USB] button was pressed.
	Communication with the USB device has been shut down because of overcurrent to the USB device. Disconnect the device from the USB [TO DEVICE] terminal, then turn on the power of the instrument.
<i>Protect</i>	Displayed when trying to save or delete data on a protected media, or when trying to format a protected USB storage device. Set Protect to off and try again.
<i>Unformat</i>	Displayed when an unformatted USB storage device is connected. Execute the Format operation (page 44) to use the device on this instrument.
<i>UseAdpt</i>	You cannot enter the File Control mode (page 39) when the instrument is running on battery power. Use an AC power adaptor.

Troubleshooting

Problem	Possible Cause and Solution
A click or pop is heard when the power is turned on or off.	This is normal when electrical current is being applied to the instrument.
Noise is heard from the speakers or headphones.	The noise may be due to interference caused by the use of a mobile phone in close proximity to the instrument. Turn off the mobile phone, or use it further away from the instrument.
There is no sound even when the keyboard is played or when a Song or Style is being played back.	Check that nothing is connected to the [PHONES/OUTPUT] jack on the rear panel. When a set of headphones is plugged into this jack, no sound is output.
Not all of the Voices seem to sound, or the sound seems to be cut off.	The instrument is polyphonic up to a maximum of 32 notes, including notes played by a Style. Notes exceeding this limit will not sound.
The Style does not sound properly.	Make sure that the Style volume (page 21) is set to an appropriate level.
	Is the Split Point set to an appropriate key for the chords you are playing? Set the Split Point to an appropriate key (page 32).
	Is the "ACMP ON" icon shown in the display? If it is not, press the [ACMP ON/OFF] button so that it is shown.
The Style or Song does not play back when the [START/STOP] button is pressed.	The External Clock may be set to ON. Make sure External Clock is set to OFF (page 33).
Rhythm accompaniment does not play when the [START/STOP] button is pressed.	Some Styles have no rhythm parts and no rhythm plays. The other parts play back when you play a chord in the accompaniment range of the keyboard if [ACMP ON/OFF] is turned on (the "ACMP ON" icon is shown in the display).
The footswitch (for sustain) seems to produce the opposite effect. For example, pressing the footswitch cuts off the sound and releasing it sustains the sounds.	The polarity of the footswitch is reversed. Make sure that the footswitch plug is properly connected to the [SUSTAIN] jack before turning on the power. Also make sure not to press the footswitch while turning the power on.
The sound of the Voice changes from note to note.	This is normal. The AWM tone generation method uses multiple recordings (samples) of an instrument across the range of the keyboard; thus, the actual sound of the Voice may be slightly different from note to note.
<ul style="list-style-type: none"> • The volume is too soft. • The sound quality is poor. • The Style stops unexpectedly or will not play. • The Song does not play correctly. • The display suddenly goes dark, and all panel settings are reset. 	The batteries are low or dead. Replace all six batteries with completely new ones, or use the AC power adaptor.
(KB-291/KB-290) The file name of a file transferred to the instrument's flash memory or a file on a USB storage device connected to the instrument is not displayed.	The number of file names that can be shown on the display is limited to 500 for Song files and 100 for Style files. Please limit the number of files accordingly.
(KB-291/KB-290) The "Ovr" message flashes and the USB device does not respond.	Communication with the USB device has been shut down because of overcurrent to the USB device. Disconnect the device from the USB [TO DEVICE] terminal, then turn on the power of the instrument.

Specifications

		KB-291/KB-290	KB-191/KB-190		
Size/Weight	Dimensions (W x D x H)	947 x 401 x 160 mm			
	Weight	7.0 kg (not including batteries)			
Control Interface	Keyboard	Number of Keys	61		
		Touch Response	Yes		
	Other Controllers	Pitch Bend	Yes		
		Portamento	Yes		
	Display	Type	LCD display		
		Backlight	Yes		
		Language	English		
Panel	Language	Chinese			
Voices	Tone Generation	Tone Generating Technology	AWM Stereo Sampling		
	Polyphony	Number of Polyphony (Max.)	32		
	Preset	Number of Voices	697 Voices (including 22 Drum/China/SE Kits + 10 Arpeggio Voices + 474 XGlite Voices)	512 Voices (including 15 Drum/China/SE Kits + 336 XGlite Voices)	
			Yes		
	Compatibility	GM/XGlite	Yes		
Effects	Types	Reverb	10 types (including Ultra-Wide Stereo)		
		Chorus	4 types		
		Harmony	26 types		
		Arpeggio	150 types	-	
	Functions	Dual	Yes		
		Split	Yes		
		Panel Sustain	Yes		
Styles	Preset	Number of Preset Styles	190	150	
		Fingering	Multi		
		Style Control	ACMP ON/OFF, INTRO/ENDING, MAIN/AUTO FILL, SYNC START, START/STOP		
	Custom	User Styles	Yes	-	
	Other Features	One Touch Setting (OTS)	Yes		
Songs	Demo Songs	Number of Demo Songs	20	15	
	Recording	Number of Songs	5		
		Number of Tracks	6		
		Data Capacity	Approx. 10,000 notes/5 Songs (when only melody tracks are recorded) Approx. 5,500 chords/5 Songs (when only Style tracks are recorded)		
	Compatible Data Format	Playback	SMF (Format 0 and 1)		
		Recording	SMF (Format 0)		
Functions	Registration	Number of Preset Registrations	16		
		Number of Custom Registrations	32	16	
	Overall Controls	Transpose	-12 – 0 – +12		
		Tuning	427.0 – 440.0 – 453.0 Hz		
Storage	Internal Memory	Approx. 1.79 MB			
	External Drives	Optional USB storage device (via USB [TO DEVICE] terminal)	-		
Connectivity	DC IN	DC IN 12 V			
	Headphones/Output	[PHONES/OUTPUT] x 1			
	Sustain Pedal	[SUSTAIN] x 1			
	Expression Pedal	[EXP. PEDAL] x 1			
	USB TO DEVICE	Yes	-		
	USB TO HOST	Yes			
Amplifiers		6W x 2			
Speakers		12cm x 2 + 3cm x 2			
Power Supply	Power Supply	Adaptor	PA-150A or an equivalent recommended by Yamaha		
		Batteries	Six batteries (1.5V "AA" size Alkaline/Manganese or 1.2V rechargeable Ni-MH)		
	Power Consumption	<ul style="list-style-type: none"> • 10W (KB-291/KB-290) • 13W (KB-291/KB-290 and AC Power Adaptor) 	<ul style="list-style-type: none"> • 11W (KB-191/KB-190) • 14W (KB-191/KB-190 and AC Power Adaptor) 		
Accessories	Included Accessories	<ul style="list-style-type: none"> • AC Power Adaptor (PA-150A or an equivalent recommended by Yamaha) • Music Rest • Expression Pedal EP-1 • Owner's Manual • Online Member Product Registration • Warranty 	<ul style="list-style-type: none"> • AC Power Adaptor (PA-150A or an equivalent recommended by Yamaha) • Music Rest • Owner's Manual • Online Member Product Registration • Warranty 		
	Optional Accessories	Footswitch: FC4, FC5, Expression Pedal EP-1			

* Specifications and descriptions in this owner's manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your Yamaha dealer.

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(Chinese RoHS No.43)

The name plate of this product may be found on the bottom of the unit. The serial number of this product may be found on or near the name plate. You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft.

Model No. _____

Serial No. _____

(bottom)

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207POCR* *-01A0
Printed in China

ZE32120