

# Using BOSS TONE STUDIO for KATANA Mk II

This document explains basic operation of BOSS TONE STUDIO for KATANA Mk II Ver.2.1.0 (subsequently referred to as “TONE STUDIO”).

In order to use BOSS TONE STUDIO O for KATANA Mk II Ver.2.1.0, you must update the system program of your KATANA Mk II amp to the latest version. For details on how to download the program and perform the update, refer to the product support page.

<https://www.boss.info/support/>

## Functions Added in Ver.2.1.0

The new functions added in version 2.1.0 are as follows.

- The KATANA-50 Mk II EX and KATANA-Artist Mk II HEAD are now supported.

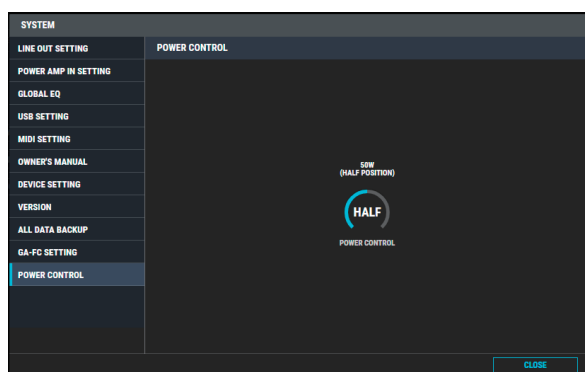
### Only for Artist, Artist HEAD

“SOLO DELAY” has been added to the SOLO feature.



### Only for Artist, Artist HEAD

“POWER CONTROL” has been added to the SYSTEM settings, and the 50W (HALF POSITION) output can now be adjusted.



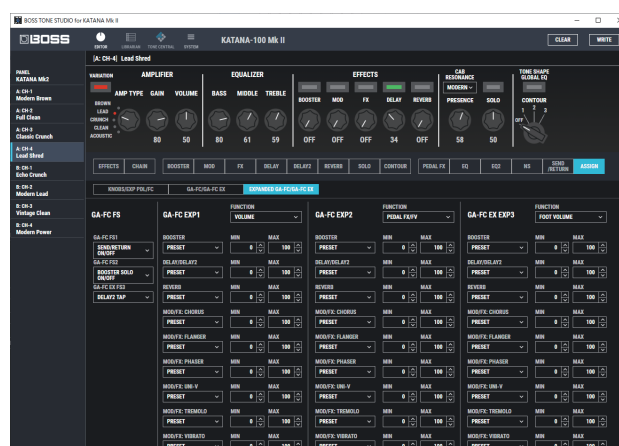
## Functions Added in Ver.2.0.1

The new functions added in version 2.0.1 are as follows.

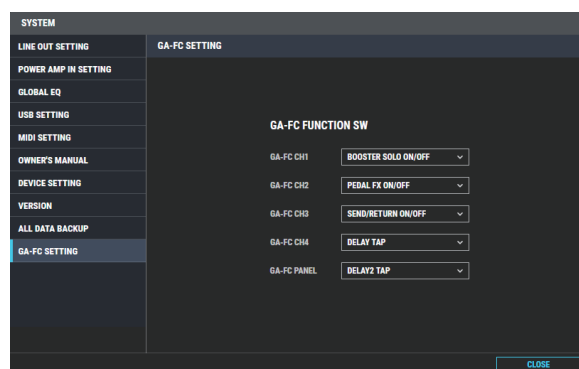
The GA-FC EX foot controller can now be used (on all models except for the KATANA-50 Mk II).

You can now configure the functions available to control with an expression pedal (FV-500L, FV-500H or Roland EV-5; sold separately) or a footswitch (FS-5U; sold separately) that's connected to the GA-FC EX.

Editor basic screen → Effect editing area → ASSIGN



TONE STUDIO screen → SYSTEM → GA-FC SETTING



# Functions Added in Ver.2.0

The new functions added in version 2.0 are as follows.

## LINE OUT

Custom settings have been added.

## EFFECTS

- An effect chain has been added.
- We've added the following effects.

SOLO EQ

PEDAL BEND

CENTA OD

- \* For details on each effect, refer to the "KATANA Mk II Effect Parameter List" (p. 17).

## CONTOUR

In addition to switching between three types of tone definition (contour) characteristics, you can now configure your own custom settings.

## SOLO New for 50, 100, 100/212 and HEAD (already available on Artist)



You can now use each FOOT CONTROL jack as a SOLO jack.

- \* To use these jacks as SOLO jacks, edit the jack function assignments in the ASSIGN page of TONE STUDIO.
- **SEL CH1 CH2/EXP PEDAL jack**  
Connect a footswitch (FS-5L, sold separately) to turn the solo function on/off.
- **GA-FC jack** New for 100, 100/212 and HEAD (already available on Artist)  
Connect a GA-FC (sold separately) and long-press the selected [CH1]–[CH4] or [PANEL] switch to switch solo on/off (the indicator slowly blinks green when solo is on).

## EQ2 New for 50, 100, 100/212 and HEAD (already available on Artist)

EQ2 has been added, so that you can now use two EQs.  
EQ2 has the same functionality as EQ.

## GLOBAL EQ (p. 16)

New for 50, 100, 100/212 and HEAD (already available on Artist)

You can now set three types of global equalizers.

## Getting Ready to Use TONE STUDIO

### Installing the USB Driver

Before you use TONE STUDIO, the appropriate USB driver for the product you're using must be installed on your computer.

**1. From the product support page, download the KATANA Driver.**

To obtain the latest USB driver, access the following URL, and download and install the appropriate driver for the product you're using.

**<https://www.boss.info/support/>**

**2. Double-click the downloaded KATANA Driver.**

Installation begins.

Proceed with the installation as directed by the installation screens. When the screen indicates "Installation has been completed," click the [Close] button.

The KATANA Driver has been installed on your computer.

### Installing TONE STUDIO

**MEMO**

Before you install TONE STUDIO, the USB driver must be installed in your computer as described in "Installing the USB Driver" (p. 3).

#### Windows Users

**1. Unpack the Zip file.**

**2. Double-click "BOSS TONE STUDIO for KATANA Mk II Installer.exe".**

Installation begins.

**3. Proceed with installation as directed by the install screens.**

**4. When the screen indicates "Completing the BOSS TONE STUDIO for KATANA Mk II Setup Wizard", click the [Finish] button.**

#### Mac Users

**1. Unpack the Zip file.**

**2. Double-click "BOSS TONE STUDIO for KATANA Mk II Installer.pkg".**

Installation begins.

**3. Proceed with installation as directed by the install screens.**

**4. When the screen indicates "The installation was successful. The software was installed.", click the [Close] button.**

### Starting TONE STUDIO

**1. Use a USB cable to connect the KATANA Mk II to your computer, and then turn on the power of the KATANA Mk II.**

**MEMO**

You can edit livesets and download livesets from BOSS TONE CENTRAL even if the KATANA Mk II is not connected to your computer via a USB cable.

However, you can't save the result of editing a patch. In order to save the edited patch, you'll need to be connected to your computer.

**2. In the [Start] menu, choose [All Programs] → [BOSS TONE STUDIO for KATANA Mk II] → [BOSS TONE STUDIO for KATANA Mk II].**

The first time you start up, the dialog box "Choose a device connect with." appears.

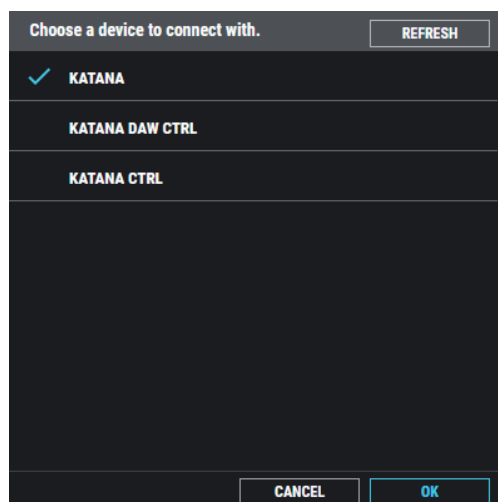
**MEMO**

On the second and subsequent startups, the device is selected automatically.

**Mac OS users**

From the Finder, in the application/BOSS/KATANA Mk II folder, double-click [BOSS TONE STUDIO for KATANA Mk II (.app)].

**3. Choose "KATANA", and click the [OK] button.**



TONE STUDIO starts.

**MEMO**

Since data will be loaded from the KATANA Mk II, it may take some time until you can use TONE STUDIO.

## Editor Basic Screen

**1 Tone Setting select area****2 Function select area****3 [CLEAR] / [WRITE] button**

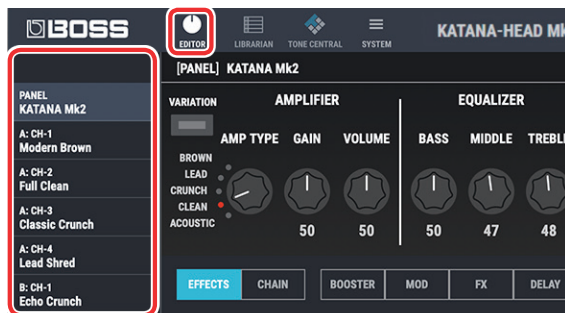
If you click the [CLEAR] button, all settings are initialized to the KATANA Mk II's original settings. By clicking the [WRITE] button you can save the edited settings in the tone setting select area (p. 5).

**4 Amp setting editing area****5 Effect editing area**

Here you can specify the effects that you want to assign to the [BOOSTER], [MOD], [FX], [DELAY], and [REVERB] knobs, and to the expression pedal.

## Editing a Tone Setting

1. At the top of KATANA Mk II Editor screen, click the [EDITOR] button.
2. Click the tone setting that you want to edit.

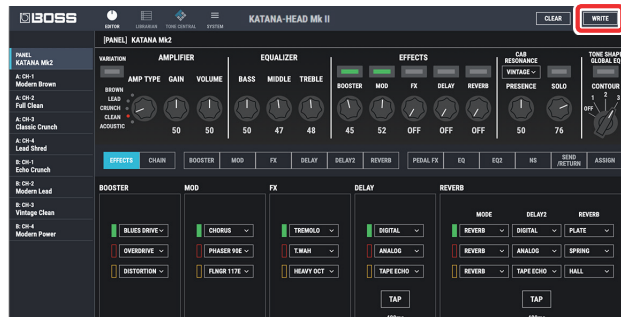


3. To edit the settings, use the mouse to operate the knobs and buttons in the screen.

## Saving Edited Settings (WRITE)

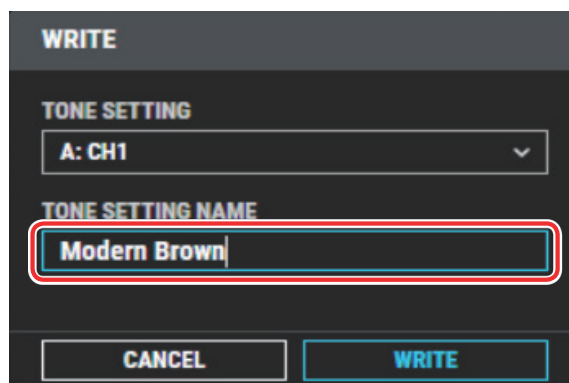
Here's how to save the edited settings.

1. In the upper right of the KATANA Mk II Editor screen, click the [WRITE] button.

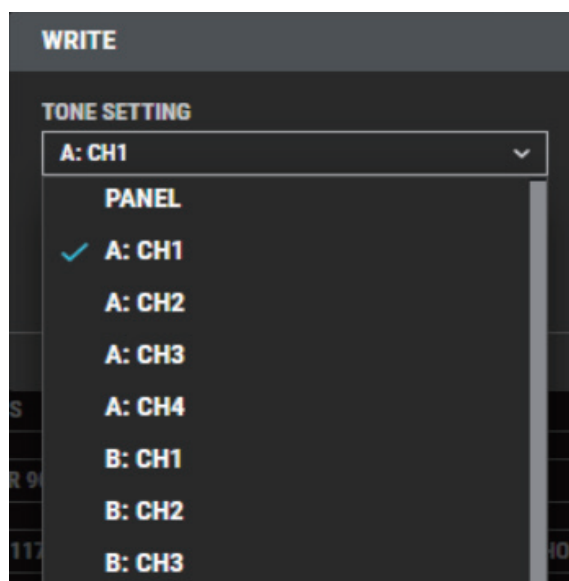


The "WRITE" dialog box appears.

2. If you want to change the name of the tone setting, click the TONE SETTING NAME field. You can use your computer keyboard to enter a tone setting name.



3. Select the write-destination.

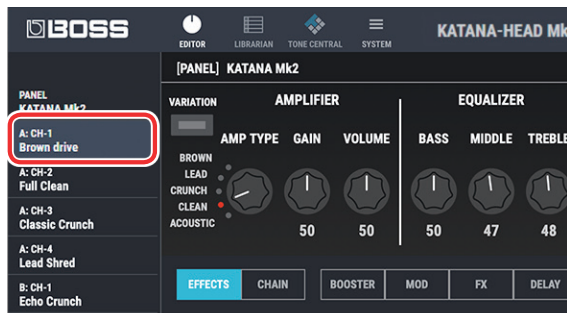


### NOTE

When you save, the tone setting of the selected number is overwritten; the original settings cannot be recovered. Select a tone setting that you don't mind overwriting.

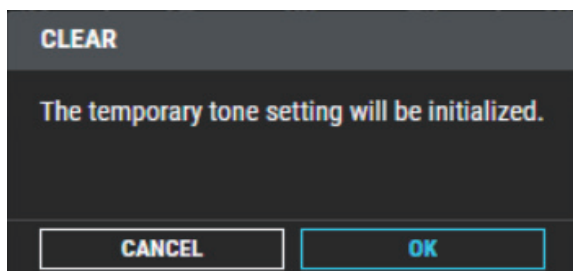
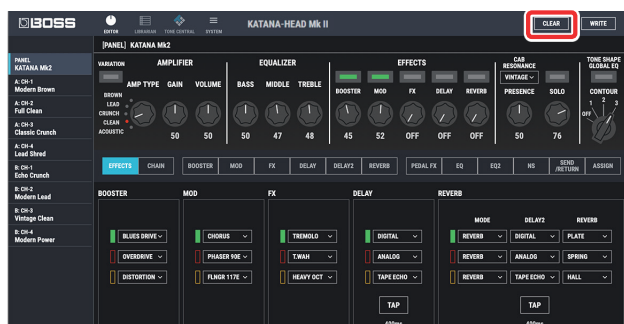
### 4. Click [WRITE].

The settings of the new tone setting are saved in the specified destination.



### MEMO

If you want to discard the settings, click the [CLEAR] button located in the upper right of the screen.



## LIBRARIAN Basic Screen



### 1 [CREATE LIVESET] button

Press this button to create a new empty liveset.

### 2 Liveset name

Shows the name of the liveset and the number of tone settings.

### 3 Liveset name edit button

Click this to edit the name of the liveset. You can click the trash can symbol to delete the liveset.

### 4 TONE SETTING name edit button

Click this to edit the name of the tone setting. You can click the trash can symbol to delete the tone setting.

### 5 [Import] button

This lets you import all of the KATANA Mk II unit's tone settings into the LIBRARIAN, or import a LIBRARIAN file from your computer into the LIBRARIAN.

### 6 [Export] button

This lets you export a liveset to the KATANA Mk II unit, or export a liveset and save it on your computer.

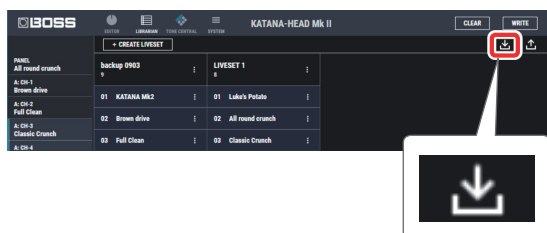
## Importing All the Tone Settings into the LIBRARIAN (IMPORT FROM KATANA Mk II)

Here's how to import all of the KATANA Mk II's tone settings into LIBRARIAN. All tone settings are saved as a liveset.

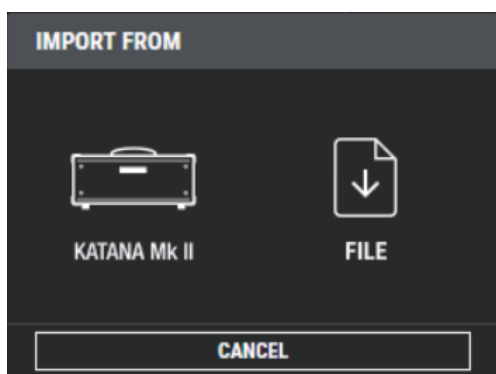
1. In TONE STUDIO screen, click the [LIBRARIAN] button.



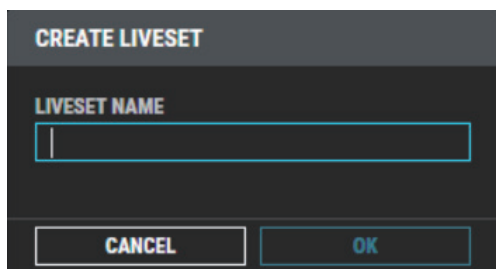
2. At the top of the TONE STUDIO screen, click the [Import] button.



3. Click the [KATANA Mk II] button.



The CREATE LIVESET screen appears.

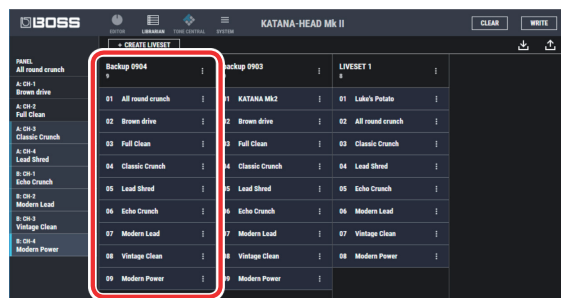


4. Enter the liveset name, and click the [OK] button.

Import begins. If you decide to cancel during the operation, click the [CANCEL] button. It will take some time to import all of the KATANA Mk II's tone settings. When import is finished, the message "Completed." appears.

5. Click the [OK] button.

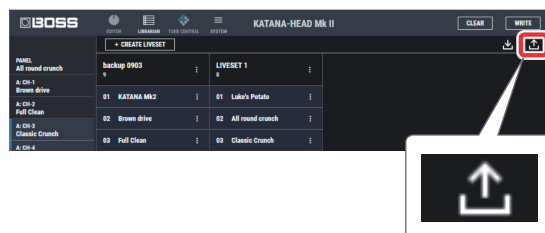
The tone settings are saved as a liveset in the LIBRARIAN.



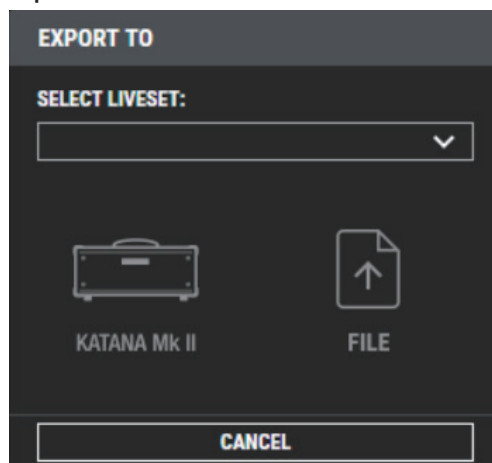
## Exporting a LIBRARIAN Liveset to the KATANA Mk II (EXPORT TO KATANA Mk II)

Here's how a liveset that you saved can be restored to the KATANA Mk II's user patch.

1. At the top of the TONE STUDIO screen, click the [Export] button.



2. From SELECT LIVESET, select the liveset that you want to export.



3. Click the [KATANA Mk II] button.

Export begins. If you decide to cancel during the operation, click the [CANCEL] button. When export is finished, the message "Completed." appears.

4. Click the [OK] button.

The selected liveset is written back into the KATANA Mk II.



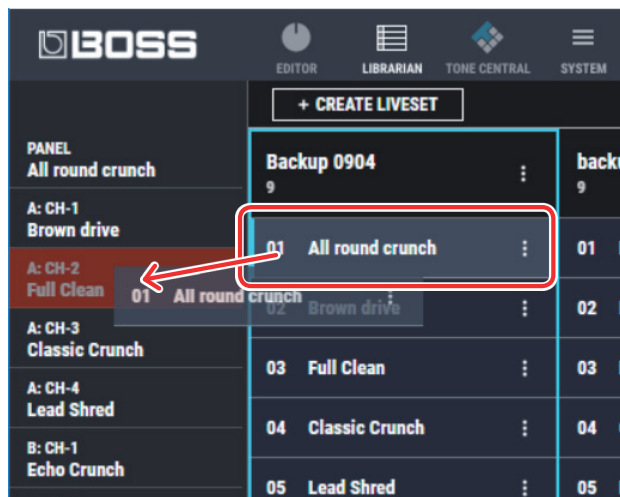
## Restoring a Tone Setting to the KATANA Mk II

Here's how to select a tone setting from a liveset that you saved, and restore it back to the KATANA Mk II.

1. Drag the tone setting that you want to restore and drop it onto the desired user patch number of the KATANA Mk II.

### NOTE

When you drop a tone setting, it overwrites the tone setting of the selected number; the original settings cannot be recovered. Select a user tone setting that you don't mind overwriting.



### MEMO

You can also select multiple tone settings as described in "Selecting multiple tone settings" (p. 11).

## Saving a Liveset to a Computer (EXPORT TO FILE)

A liveset that you backed up can be exported to your computer (Export).

1. At the top of the TONE STUDIO screen, click the [Export] button.
2. From SELECT LIVESET, select the liveset that you want to export.
3. Click the [FILE] button.  
The "Save As" dialog box appears.
4. Enter a name and save-destination, and click the [Save] button.  
A liveset file (.tsl) is created at the save-destination.

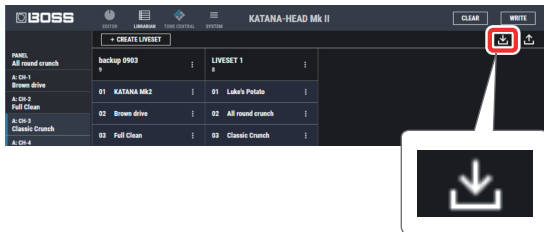
## Ways to use an exported liveset

- Use a USB flash drive to copy the liveset to a different computer.
- Sent the liveset via email to another KATANA Mk II user.

## Importing a Liveset from a Computer into the LIBRARIAN (IMPORT FROM FILE)

A liveset that you exported to a computer can be imported into a TONE STUDIO library (Import).

1. At the top of the TONE STUDIO screen, click the [Import] button.



2. Click the [FILE] button.

The "Open" dialog box appears.

3. Select the liveset file (extension: .tsl) that you want to import into the library, and click the [Open] button.

The liveset is imported into the LIBRARIAN.

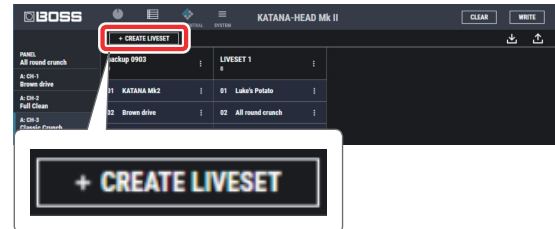
### MEMO

The TONE STUDIO can also import the livesets created by KATANA-Artist, KATANA-100/212, KATANA-100, KATANA-50, KATANA-HEAD into the LIBRARIAN.

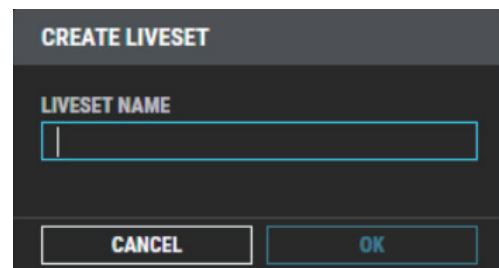
## Creating an Original Liveset

You can collect your favorite tonesettings to create an original liveset.

1. At the top of the TONE STUDIO screen, click the [CREATE LIVESET] button.

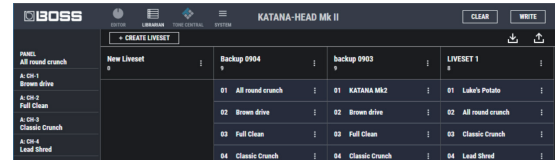


2. Input a name for the liveset.

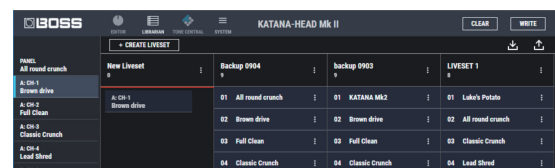


3. Click the [OK] button.

An empty liveset containing no tone settings is created.



4. From the tone setting list at the left of the TONE STUDIO screen, drag and drop your favorite tone settings into the new liveset.



The selected tone settings are registered in the new liveset.

### MEMO

- A maximum of 15 tone settings can be registered in one liveset. If inserting tone settings would cause the liveset to exceed 15 tone settings, the tone settings that exceed 15 are not inserted (a message is displayed).
- Tone settings that are registered in another liveset can also be dragged and dropped into the new liveset.
- You can drag and drop the tone settings in the liveset to change their order.
- TONE STUDIO lets you create up to 50 livesets. If you want to create and save more than 50 livesets, use the EXPORT TO FILE function to save existing livesets on your computer.

## Copying Tone Settings

Here's how to copy a tone setting to another liveset or to an KATANA Mk II tone setting.

### 1. Click the tone setting that you want to copy.

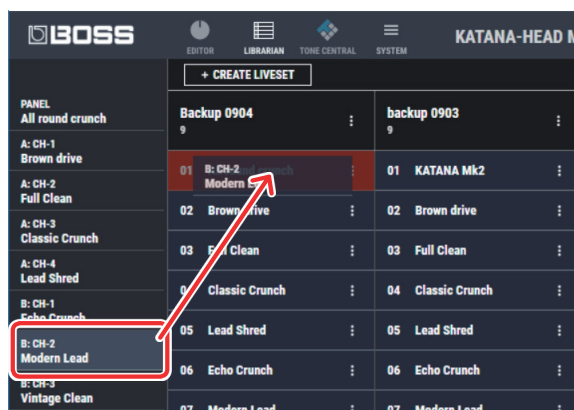
#### MEMO

You can also select and copy multiple tone settings as described in "Selecting multiple tone settings" (p. 11).

### 2. Drag and drop the selected tone settings onto the desired copy-destination.

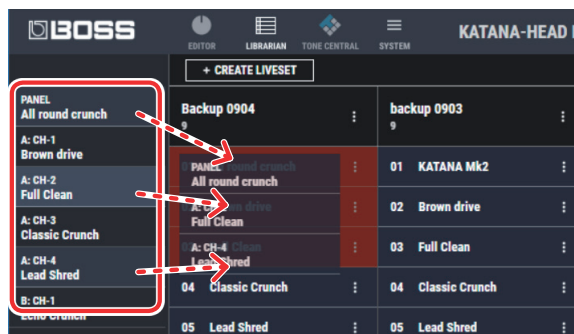
#### NOTE

When you drop the tone settings, they are overwritten onto the tone settings of the selected red area, and the original settings cannot be recovered. Select tone settings that you don't mind overwriting.



#### MEMO

- If you select non-consecutive tone settings and copy them, they are copied as successive tone settings.



- A maximum of 50 tone settings can be registered in one liveset. If inserting tone settings would cause the liveset to exceed 50 tone settings, the tone settings that exceed 50 are not inserted (a message is displayed).
- Tone settings that are registered in a liveset can be copied to your own liveset or to a new liveset.

## Selecting multiple tone settings

By using your computer's mouse and keyboard together, you can select multiple tone settings.

### Selecting a range of tone settings

Here's how to select a range of consecutive tone settings.

1. Click the first tone setting that you want to select.
2. While holding down your computer keyboard's [Shift] key, click the last tone setting that you want to select.  
The first through last tone settings that you click are selected.

### Selecting tone settings individually

Here's how to select just the individual tone settings that you click.

1. While holding down your computer keyboard's [Ctrl] key, click a tone setting that you want to select.  
The tone setting you click is selected. The selected tone setting is highlighted.

#### Mac OS users

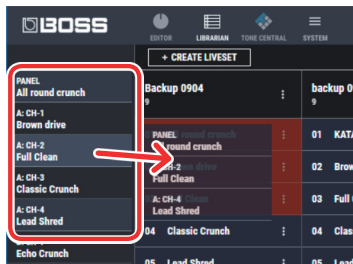
While holding down your computer keyboard's [command] key, click a tone setting that you want to select.

2. If you want to select other tone settings, repeat step 1.  
If you hold down the [Ctrl] key and click a selected (highlighted) tone setting once again, the selection is cleared (that tone setting is no longer highlighted).

## The difference between operations when selecting and copying multiple tone settings

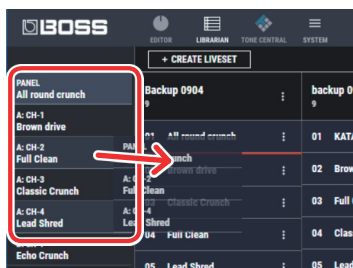
When you drag and drop the selected tone settings, the copy result will differ depending on your mouse operation.

### Drag and drop when a red area is shown at the copy-destination (overwrite copy)



The tone settings are copied to the area indicated by the red color.

### Drag and drop between copy-destination tone settings (insert)



The tone settings are inserted at the position of the red line. Subsequent tone settings are moved backward.

## Moving Tone Settings

Here's how to move a tone setting to another liveset or to an KATANA Mk II tone setting. When you move a tone setting, it disappears from its previous location.

1. Click the tone setting that you want to move.

#### MEMO

You can also select and move multiple tone settings as described in "Selecting multiple tone settings" (p. 11).

2. While holding down your computer keyboard's [Alt] key, drag and drop the selected tone setting to the desired copy-destination.

#### Mac OS users

While holding down your computer keyboard's [option] key, drag and drop.

## Deleting Tone Settings

Here's how to delete an unwanted tone setting.

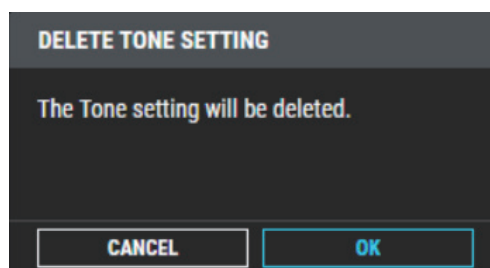
1. Click the tone setting that you want to delete.

#### MEMO

You can also select and delete multiple tone settings as described in "Selecting multiple tone settings" (p. 11).

2. Press your computer keyboard's [Delete] key.

The "DELETE TONE SETTING" message appears.



#### NOTE

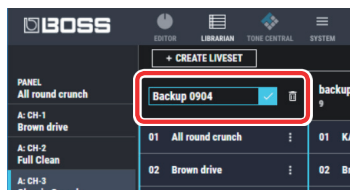
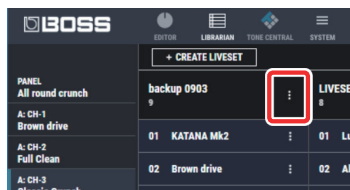
Deleted tone settings cannot be recovered. If you decide not to delete, click the [CANCEL] button.

3. Click the [OK] button.

The selected tone settings are deleted.

## Editing a Liveset Name

1. Click the [⋮] button located at the right of the name of the liveset that you want to edit.



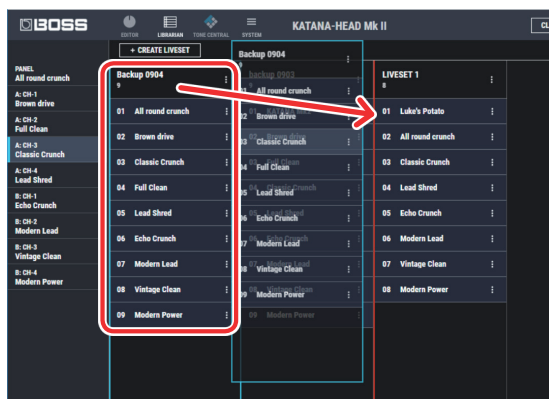
## Rearranging Livesets

Here's how to rearrange the livesets that are displayed.

1. Click the liveset that you want to rearrange.

2. Drag and drop the liveset name.

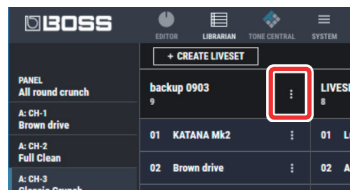
The liveset moves to the position indicated by the red line.



## Deleting a Liveset

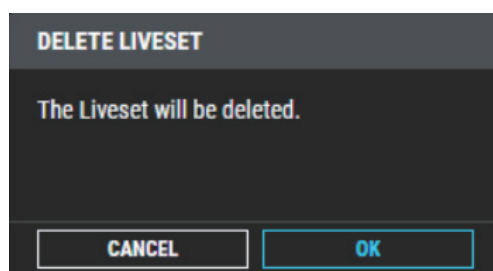
Here's how to delete a liveset that you no longer need.

1. Click the [⋮] button located at the right of the name of the liveset that you want to delete.



2. Click the [X] button.

The "Delete liveset" message appears.



### NOTE

The deleted liveset cannot be recovered. If you decide to cancel without deleting, click the [CANCEL] button.

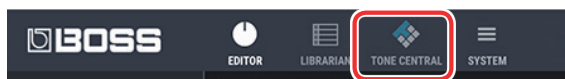
3. Click the [OK] button.

The selected liveset is deleted.

## Downloading and Using Livesets from BOSS TONE CENTRAL

Livesets that have been published on BOSS TONE CENTRAL can be downloaded and used on the KATANA Mk II.

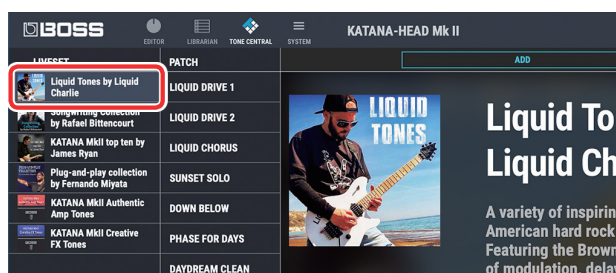
- At the top of the TONE STUDIO screen, click the [TONE CENTRAL] button.



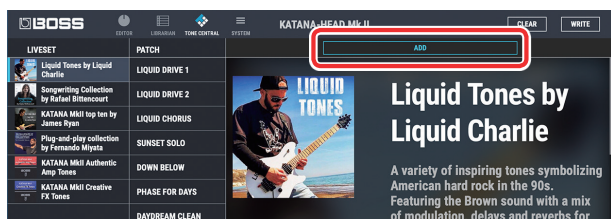
The tone settings published on BOSS TONE CENTRAL are listed together with explanations of the tone settings.

- In LIVESET, select the liveset that you want to download.

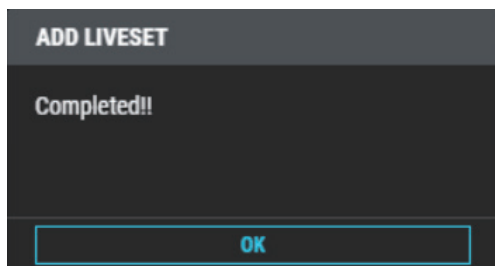
In this example, select "Liquid Tones by Liquid Charlie".



- At the top of the screen, click the [ADD] button.



The liveset is downloaded, and the message "Completed." appears.

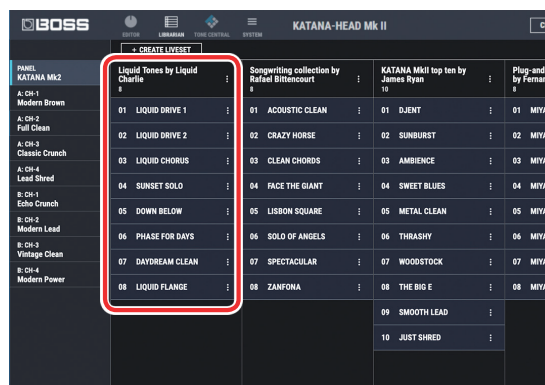


### MEMO

Downloads from BOSS TONE STUDIO are done in units of livesets. You can't download individual tone settings, nor add individual tone settings to the library.

- Click the [OK] button, and click the [LIBRARIAN] button once again.

The liveset you downloaded appears.

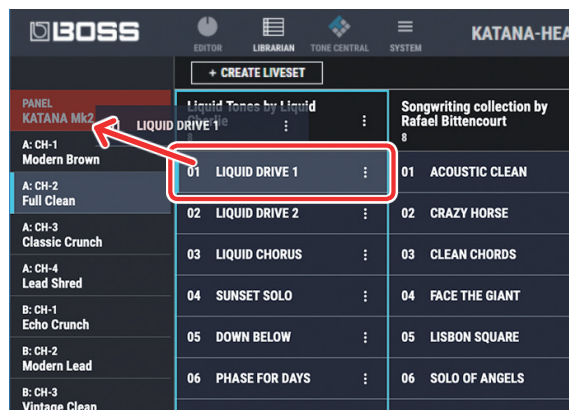


- Drag and drop tone settings from the downloaded liveset into the desired tone setting numbers of the KATANA Mk II.

### NOTE

When you drop a tone setting, it overwrites the tone setting of the selected number; the original settings cannot be recovered. Select a tone setting that you don't mind overwriting.

In this example, drag and drop the tone setting "01 LIQUID DRIVE 1" onto "PANEL".

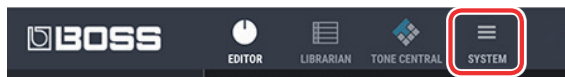


## Selecting the Device Controlled by TONE STUDIO

Here's how to select the device controlled by TONE STUDIO.

1. At the top of the TONE STUDIO screen, click the [SYSTEM] button.

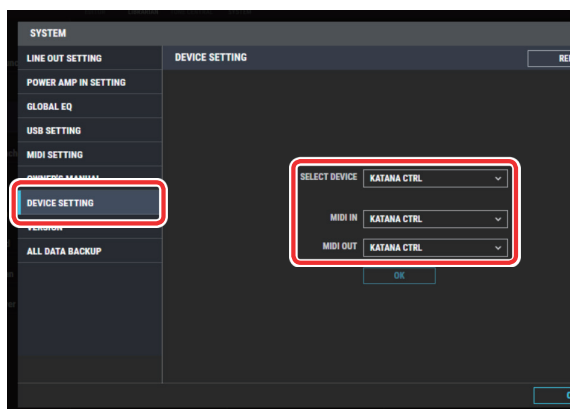
The MENU screen appears.



2. Click the [DEVICE SETTING] button.

The "Device" screen appears.

3. Click SELECT DEVICE, and from the list choose [KATANA].



## Saving All KATANA Mk II Settings to the Computer (ALL DATA BACKUP)

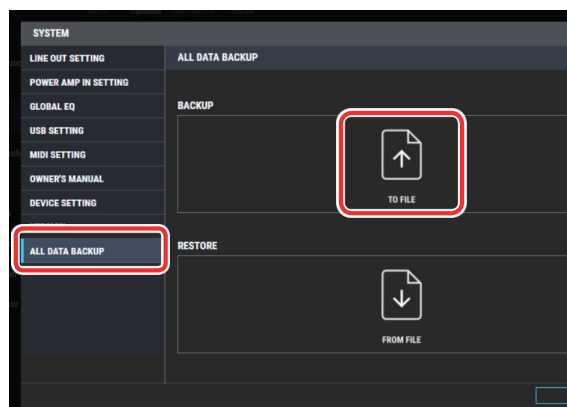
Here's how all data saved in the KATANA Mk II can be backed-up to the computer.

1. At the top of the TONE STUDIO screen, click the [SYSTEM] button.

2. Click [ALL DATA BACKUP].

The ALL DATA BACKUP screen appears.

3. Click the [TO FILE] button.



The "Save As" dialog box appears.

4. Input a name and save-destination, and click the [Save] button.

Export begins.

It will take some time for all data to be exported.

When the operation is finished, the message "Completed." appears.

5. Click the [OK] button.

An all data file (.alb file) is created in the save-destination.



## Restoring an All Data File from the Computer to the KATANA Mk II (ALL DATA RESTORE)

Here's how an all data file previously saved on the computer can be restored to the KATANA Mk II.

### NOTE

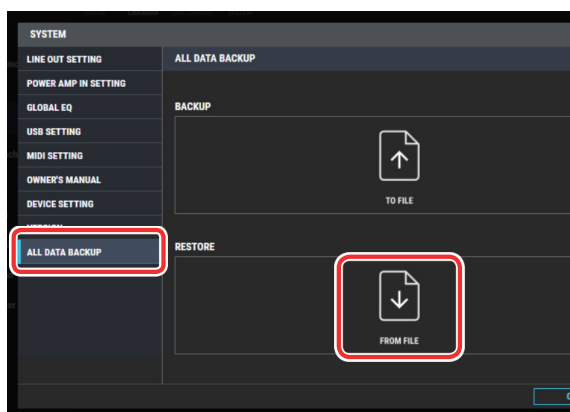
When you restore, all data is overwritten, and cannot be returned to its previous settings.

1. At the top of the TONE STUDIO screen, click the [SYSTEM] button.

2. Click [ALL DATA BACKUP].

The ALL DATA BACKUP screen appears.

3. Click the [FROM FILE] button.



The "Open" dialog box appears.

4. Select the all data file (extension: .alb) that you want to restore, and click the [Open] button.

Import begins.

Since all data is being imported, this will take some time. When the operation is finished, the message "Completed." appears.

5. Click the [OK] button.

All data is restored to the KATANA Mk II.

## Adjusting the Tone of the Entire KATANA Mk II (GLOBAL EQ)

You can place the global equalizer either before (INPUT) or after (OUTPUT) the effect chain.

1. At the top of the TONE STUDIO screen, click the [SYSTEM] button.

2. Click [GLOBAL EQ].

The GLOBAL EQ screen appears.



3. Make settings for the global equalizer.

You can make three types of equalizer settings (green, red, orange) and switch between them during use.




4. Click the [CLOSE] button.

The settings are completed.



# KATANA Mk II Effect Parameter List

## MEMO

-  This effect sound is mono.
-  This effect sound is output with two channels.
-  These effects take a mono input and output it on two channels.

## BOOSTER

MONO

Various boosters and distortion effects can be selected.

### BOOSTER Type

Type	Explanation
CLEAN BOOST	This not only functions as a booster, but also produces a clean tone that has punch even when used alone.
TREBLE BOOST	This is a booster that has bright characteristics.
MID BOOST	This is a booster with unique characteristics in the midrange. Making the connection before the preamp produces sound suitable for solos.
CRUNCH OD	A lustrous crunch sound with an added element of amp distortion.
BLUES DRIVE	This is a crunch sound of the BOSS BD-2. This produces distortion that faithfully reproduces the nuances of picking.
OVERDRIVE	This models the sound of the BOSS OD-1. This produces sweet, mild distortion.
NATURAL OD	This is an overdrive sound that provides distortion with a natural feeling.
WARM OD	This is a warm overdrive.
TURBO OD	This is the high-gain overdrive sound of the BOSS OD-2.
T-SCREAM	This models an Ibanez TS-808.
DISTORTION	This gives a basic, traditional distortion sound.
FAT DS	A distortion sound with thick distortion.
DST+	This models a MXR DISTORTION+.
GUV DS	This models a Marshall GUV'NOR.
RAT	This models a Proco RAT.
METAL ZONE	This models the sound of the BOSS MT-2. It produces a wide range of metal sounds, from old style to slash metal.
METAL DS	This is distortion sound that is ideal for performances of heavy riffs.
'60S FUZZ	This models a FUZZFACE. It produces a fat fuzz sound.
MUFF FUZZ	This models an Electro-Harmonix Big Muff π.
OCT FUZZ	A fuzz sound with rich harmonic content.
HM-2	This models the sound of the BOSS HM-2. It produces distinctive cranked-up distortion sound with compression.
METAL CORE	This is the sound of the BOSS ML-2 which is ideal for high speed metal riffs.
CENTA OD	This models a KILON CENTAUR.

### BOOSTER Parameters

Parameter	Value	Explanation
TYPE	Refer to BOOSTER Type	
DRIVE	0–120	Adjusts the depth of distortion.
TONE	-50+50	Adjusts the tone.
BOTTOM	-50+50	Adjusts the tone for the low frequency range. Turning this to the left (counterclockwise) produces a sound with the low end cut; turning it to the right boosts the low end in the sound.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
SOLO SW	OFF, ON	Switches to a tone that is suitable for solos.
SOLO LEVEL	0–100	Adjusts the volume level when the Solo Sw is ON.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

## MOD/FX

With MOD and FX, you can select the effect to be used from the following. You can select the same effect for MOD and FX.

### MOD/FX Type

This is a list of the effects that can be selected for MOD/FX.

Effect Name	Explanation
CHORUS	Frequency band division is employed to produce two different choruses, one for low frequencies and one for higher frequencies. This allows you to achieve a more natural chorus sound.
FLANGER	The flanging effect gives a twisting, jet-airplane-like character to the sound.
PHASER	By adding varied-phase portions to the direct sound, the phaser effect gives a whooshing, swirling character to the sound.
UNI-V	This models a Uni-Vibe. Although this resembles a phaser effect, it also provides a unique undulation that you can't get with a regular phaser.
TREMOLO	Tremolo is an effect that creates a cyclic change in volume.
VIBRATO	This effect creates vibrato by slightly modulating the pitch.
ROTARY	This produces an effect like the sound of a rotary speaker.
RING MOD (Ring Modulator)	This creates a bell-like sound by ring-modulating the guitar sound with the signal from the internal oscillator. The sound can be unmusical and lack distinctive pitches.
SLOW GEAR	This produces a volume-swell effect ("violin-like" sound).
SLICER	This consecutively interrupts the sound to create the impression that a rhythm backing phrase is being played.
COMP (Compressor)	This is an effect that produces a long sustain by evening out the volume level of the input signal. You can also use it as a limiter to suppress only the sound peaks and prevent distortion.
LIMITER	The limiter attenuates loud input levels to prevent distortion.
T. WAH (Touch Wah)	You can produce a wah effect with the filter changing in response to the guitar level.
AUTO WAH	This changes the filtering over a periodic cycle, providing an automatic wah effect.
PEDAL WAH	You can use an expression pedal connected to the FX jack on the rear panel of the GA-FC foot controller (sold separately) to control the wah effect in real time.
GRAPHIC EQ (Graphic Equalizer)	Adjusts the tone. You can adjust the sound quality in ten bands.
PARAMETRIC EQ (Parametric Equalizer)	Adjusts the tone. You can adjust the sound quality in four bands.
GUITAR SIM (Guitar Simulator)	Simulation of the characteristics of particular guitar components such as pickups and different guitar bodies allows you to switch among a number of different guitar types all while using a single guitar.
AC.GUITAR SIM (Acoustic Guitar Simulator)	This transforms the sound of an electric guitar into the sound of an acoustic guitar.
AC. PROCESSOR (Acoustic Processor)	This processor allows you to change the sound produced by the pickup on an acoustic electric guitar, creating a richer sound similar to that obtained with a microphone placed close to the guitar.
WAVE SYNTH	This is a synth sound that processes the guitar input signal.
OCTAVE	This adds a note one octave lower, creating a richer sound.
HEAVY OCTAVE	This adds sound lowered by an octave to the original sound. Since you can play chords even when using this effect, you can use it to fatten the sound of your chordal playing as well.
PITCH SHIFTER	This effect changes the pitch of the original sound (up or down) within a range of two octaves.
HARMONIST	Harmonist is an effect where the amount of shifting is adjusted according to an analysis of the guitar input, allowing you to create harmony based on diatonic scales.
HUMANIZER	This can create human vowel-like sounds.
PHASER 90E	This models an MXR EVH-90 Phase Shifter.
FLANGER117E	This models an MXR EVH-117 Flanger.
WAH 95E	This models a Jim Dunlop EVH-95 Wah pedal. You can control the wah effect in real time by adjusting the expression pedal connected to the SEL CH1 CH2/EXP PEDAL jack on the rear panel, or to the rear panel of the GA-FC foot controller (sold separately).
DC-30	This models a Roland DC-30.

## MOD/FX Effect Parameters

## CHORUS

MONO  
STEREO

Frequency band division is employed to produce two different choruses, one for low frequencies and one for higher frequencies. This allows you to achieve a more natural chorus sound.

Parameter	Value	Explanation
LOW RATE	0–100,	Adjust the speed of the chorus effect for the low frequency range.
LOW DEPTH	0–100	Adjust the depth of the chorus effect for the low frequency range. If you wish to use this as a doubling effect, use a setting of 0.
LOW PRE DELAY	0.0–40.0 ms	Adjusts the delay of the effect sound in the low-frequency range. Extending the pre-delay will produce the sensation of multiple sounds (doubling effect).
LOW LEVEL	0–100	Adjusts the volume of the effect sound in the low-frequency range.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
HIGH RATE	0–100,	Adjust the speed of the chorus effect for the high frequency range.
HIGH DEPTH	0–100	Adjust the depth of the chorus effect for the high frequency range. If you wish to use this as a doubling effect, use a setting of 0.
HIGH PRE DELAY	0.0–40.0 ms	Adjusts the delay of the effect sound in the high-frequency range. Extending the pre-delay will produce the sensation of multiple sounds (doubling effect).
HIGH LEVEL	0–100	Adjusts the volume of the effect sound in the high-frequency range.
CROSSOVER FREQUENCY	100 Hz–4.00 kHz	This sets the frequency dividing the low- and high-frequency ranges.

## FLANGER

STEREO

The flanging effect gives a twisting, jet-airplane-like character to the sound.

Parameter	Value	Explanation
RATE	0–100	This sets the rate of the flanging effect.
DEPTH	0–100	Determines the depth of the flanging effect.
RESONANCE	0–100	Determines the amount of resonance (feedback). Increasing the value will emphasize the effect, creating a more unusual sound.
MANUAL	0–100	Adjusts the center frequency at which to apply the effect.
EFFECT LEVEL	0–100	Adjusts the volume of the flanger.
LOW CUT	FLAT, 55 Hz–800 Hz	This sets the frequency at which the low cut filter begins to take effect. When “Flat” is selected, the low cut filter will have no effect.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

## PHASER

MONO

By adding varied-phase portions to the direct sound, the phaser effect gives a whooshing, swirling character to the sound.

Parameter	Value	Explanation
TYPE		Selects the number of stages that the phaser effect will use.
	4 STAGE	This is a four-phase effect. A light phaser effect is obtained.
	8 STAGE	This is a eight-phase effect. It is a popular phaser effect.
	12 STAGE	This is a twelve-phase effect. A deep phase effect is obtained.
	BiPHASE	This is the phaser with two phase shift circuits connected in series.
RATE	0–100	This sets the rate of the phaser effect.
DEPTH	0–100	Determines the depth of the phaser effect.
RESONANCE	0–100	Determines the amount of resonance (feedback). Increasing the value will emphasize the effect, creating a more unusual sound.
MANUAL	0–100	Adjusts the center frequency of the phaser effect.
EFFECT LEVEL	0–100	Adjusts the volume of the phaser.
STEP RATE	OFF, 0–100	This sets the cycle of the step function that changes the rate and depth. When it is set to a higher value, the change will be finer. Set this to “Off” when not using the Step function.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

## UNI-V

MONO

This models a Uni-Vibe.

Although this resembles a phaser effect, it also provides a unique undulation that you can't get with a regular phaser.

Parameter	Value	Explanation
RATE	0–100	Adjusts the rate of the UNI-V effect.
DEPTH	0–100	Adjusts the depth of the UNI-V effect.
LEVEL	0–100	Adjusts the volume.

## TREMOLO

STEREO

Tremolo is an effect that creates a cyclic change in volume.

Parameter	Value	Explanation
WAVE SHAPE	0–100	Adjusts changes in volume level. A higher value will steepen wave's shape.
RATE	0–100	Adjusts the frequency (speed) of the change.
DEPTH	0–100	Adjusts the depth of the effect.
LEVEL	0–100	Adjusts the volume.

## VIBRATO

STEREO

This effect creates vibrato by slightly modulating the pitch.

Parameter	Value	Explanation
RATE	0–100	Adjusts the rate of the vibrato.
DEPTH	0–100	Adjusts the depth of the vibrato.
LEVEL	0–100	Adjusts the volume.

## ROTARY

MONO  
STEREO

This produces an effect like the sound of a rotary speaker.

Parameter	Value	Explanation
RATE	0–100	Adjusts the speed of the rotation.
DEPTH	0–100	Adjusts the amount of depth in the rotary effect.
LEVEL	0–100	Adjusts the volume.

## RING MOD

STEREO

The sound can be unmusical and lack distinctive pitches.

Parameter	Value	Explanation
MODE		This selects the mode for the ring modulator.
	NORMAL	This is a normal ring modulator.
	INTELLIGENT	By ring-modulating the input signal, a bell like sound is created. The intelligent ring modulator changes the oscillation frequency according to the pitch of the input sound and therefore produces a sound with the sense of pitch, which is quite different from NORMAL. This effect does not give a satisfactory result if the pitch of the guitar sound is not correctly detected. So, you must use single notes, not chords.
FREQUENCY	0–100	Adjusts the frequency of the internal oscillator.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

## SLOW GEAR

STEREO

This produces a volume-swell effect ("violin-like" sound).

Parameter	Value	Explanation
SENS	0–100	Adjusts the sensitivity of the slow gear. When it is set to a lower value, the effect of the slow gear can be obtained only with a stronger picking, while no effect is obtained with a weaker picking. When the value is set higher, the effect is obtained even with a weak picking.
RISE TIME	0–100	Adjusts the time needed for the volume to reach its maximum from the moment you begin picking.
LEVEL	0–100	Adjusts the volume of the effect sound.

## SLICER

STEREO

This consecutively interrupts the sound to create the impression that a rhythm backing phrase is being played.

Parameter	Value	Explanation
PATTERN	P1–P20	Select the slice pattern that will be used to cut the sound.
RATE	0–100	Adjust the rate at which the sound will be cut.
TRIGGER SENS	0–100	Adjust the sensitivity of triggering. With low settings of this parameter, softly picked notes will not retrigger the phrase (i.e., the phrase will continue playing), but strongly picked notes will retrigger the phrase so that it will playback from the beginning. With high settings of this parameter, the phrase will be retriggered even by softly picked notes.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

## COMP

STEREO  
MONO

This is an effect that produces a long sustain by evening out the volume level of the input signal. You can also use it as a limiter to suppress only the sound peaks and prevent distortion.

Parameter	Value	Explanation
TYPE	BOSS COMP	This models a BOSS CS-3.
	HI-BAND	This is a compressor that adds an even stronger effect in the high end.
	LIGHT	This is a compressor with a light effect.
	D-COMP	This models a MXR DynaComp.
	ORANGE	This is modeled on the sound of the Dan Armstrong ORANGE SQUEEZER.
	FAT	When applied heavily, this compressor effect provides a fat tone with a boosted midrange.
	MILD	When applied heavily, this compressor effect produces a sweet tone with the high end cut.
SUSTAIN	0–100	Adjusts the range (time) over which low-level signals are boosted. Larger values will result in longer sustain.
ATTACK	0–100	Adjusts the strength of the picking attack when the strings are played. Higher values result in a sharper attack, creating a more clearly defined sound.
LEVEL	0–100	Adjusts the volume.
TONE	-50–+50	Adjusts the tone.

## LIMITER

STEREO

The limiter attenuates loud input levels to prevent distortion.

Parameter	Value	Explanation
TYPE		Selects the limiter type.
	BOSS LIMITER	This selects a stereo limiter.
	RACK 160D	This models a dbx 160X.
	VTG RACK U (VINTAGE RACK U)	This models a UREI 1178.
THRESHOLD	0–100	Adjust this as appropriate for the input signal from your guitar. When the input signal level exceeds this threshold level, limiting will be applied.
RATIO	1:1–INF:1	This selects the compression ratio used with signals in excess of the threshold level.
ATTACK	0–100	Adjusts the strength of the picking attack when the strings are played. Higher values result in a sharper attack, creating a more clearly defined sound.
RELEASE	0–100	Adjusts the release time.
LEVEL	0–100	Adjusts the volume.

## KATANA Mk II Effect Parameter List

### T. WAH

MONO

You can produce a wah effect with the filter changing in response to the guitar level.

Parameter	Value	Explanation
MODE	Selects the wah mode.	
	LPF	Low pass filter. This provides a wah effect over a wide frequency range.
	BPF	Band pass filter. This provides a wah effect in a narrow frequency range.
POLAR	Selects the direction in which the filter will change in response to the input.	
	DOWN	The frequency of the filter will fall.
	UP	The frequency of the filter will rise.
SENS	0–100	Specifies the sensitivity with which the filter changes in the direction specified by the POLAR setting.
		Higher values will produce a stronger tone which emphasizes the wah effect more. With a setting of 0, the strength of picking will have no effect.
FREQ	0–100	Adjusts the center frequency of the Wah effect.
PEAK	0–100	Adjusts the way in which the wah effect applies to the area around the center frequency.
		Higher values will produce a stronger tone which emphasizes the wah effect more. With a value of 50 a standard wah sound will be produced.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

### PEDAL WAH

MONO

You can control the wah effect in real time by adjusting the expression pedal connected to the SEL CH1 CH2/EXP PEDAL jack on the rear panel, or to the rear panel of the GA-FC foot controller (sold separately).

Parameter	Value	Explanation
TYPE	Selects the wah mode.	
	CRY WAH	This models the sound of the CRY BABY wah pedal popular in the '70s.
	VO WAH	This models the sound of the VOX V846.
	FAT WAH	This is a wah sound featuring a bold tone.
	LIGHT WAH	This wah has a refined sound with no unusual characteristics.
	7STRING WAH	This expanded wah features a variable range compatible with seven-string and baritone guitars.
	RESO WAH	This completely original effect offers enhancements on the characteristic resonances produced by analog synth filters.
PEDAL POS (PEDAL POSITION)	0–100	Adjusts the position of the wah pedal. * This parameter is used after it's been assigned to an EXP Pedal or similar controller.
PEDAL MIN	0–100	Selects the tone produced when the heel of the EXP Pedal is depressed.
PEDAL MAX	0–100	Selects the tone produced when the toe of the EXP Pedal is depressed.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

### AUTO WAH

MONO

This changes the filtering over a periodic cycle, providing an automatic wah effect.

Parameter	Value	Explanation
MODE	Selects the wah mode.	
	LPF	Low pass filter. This provides a wah effect over a wide frequency range.
	BPF	Band pass filter. This provides a wah effect in a narrow frequency range.
RATE	0–100	Adjusts the frequency (speed) of the change.
DEPTH	0–100	Adjusts the depth of the effect.
FREQ	0–100	Adjusts the center frequency of the Wah effect.
PEAK	0–100	Adjusts the way in which the wah effect applies to the area around the center frequency.
		Higher values will produce a stronger tone which emphasizes the wah effect more. With a value of 50 a standard wah sound will be produced.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

### GRAPHIC EQ

STEREO

This adjusts the tone. You can adjust the sound quality in ten bands.

Parameter	Value
31 Hz	-20→+20 dB
62 Hz	
125 Hz	
250 Hz	
500 Hz	
1 kHz	
2 kHz	
4 kHz	
8 kHz	
16 kHz	
LEVEL	-20→+20 dB

## PARAMETRIC EQ

STEREO

This adjusts the tone. You can adjust the sound quality in four bands.

Parameter	Value	Explanation
LOW GAIN	-20+20 dB	Adjusts the low frequency range tone.
LOW-MID GAIN	-20+20 dB	Adjusts the low-middle frequency range tone.
HIGH-MID GAIN	-20+20 dB	Adjusts the high-middle frequency range tone.
HIGH GAIN	-20+20 dB	Adjusts the high frequency range tone.
LEVEL	-20+20 dB	Adjusts the overall volume level of the equalizer.
LOW-MID FREQUENCY	20 Hz–10.0 kHz	Specifies the center of the frequency range that will be adjusted by the LOW-MID GAIN.
LOW-MID Q	0.5–16	Adjusts the width of the area affected by the EQ centered at the LOW-MID FREQ. Higher values will narrow the area.
HIGH-MID FREQUENCY	20 Hz–10.0 kHz	Specifies the center of the frequency range that will be adjusted by the HIGH-MID GAIN.
HIGH-MID Q	0.5–16	Adjusts the width of the area affected by the EQ centered at the HIGH-MID FREQ. Higher values will narrow the area.
LOW CUT	FLAT, 20 Hz–800 Hz	This sets the frequency at which the low cut filter begins to take effect. When "Flat" is selected, the low cut filter will have no effect.
HIGH CUT	630 Hz–12.5 kHz, FLAT	This sets the frequency at which the high cut filter begins to take effect. When "FLAT" is selected, the high cut filter will have no effect.

## GUITAR SIM

MONO

Simulation of the characteristics of particular guitar components such as pickups and different guitar bodies allows you to switch among a number of different guitar types all while using a single guitar.

Parameter	Value	Explanation
TYPE		Selects the type of the guitar simulator.
	S → H	Changes from a single-coil pickup tone to a humbucking pickup tone.
	H → S	Changes from a humbucking pickup tone to a single-coil pickup tone.
	H → HF (HALF TONE)	Changes from a humbucking pickup tone to a single-coil pickup half tone.
	S → HOLLOW	Changes a single-coil pickup tone to a hollow body tone with the body resonance added.
	H → HOLLOW	Changes a humbucking pickup tone to a hollow body tone with the body resonance added.
	S → AC (ACOUSTIC)	Changes a single-coil pickup tone to an acoustic guitar tone.
	H → AC (ACOUSTIC)	Changes a humbucking pickup tone to an acoustic guitar tone.
	P → AC (PIEZO → ACOUSTIC)	Changes a piezo pickup tone to an acoustic guitar tone.
LOW	-50+50	Adjusts the low frequency range tone.
HIGH	-50+50	Adjusts the high frequency range tone.
BODY	0–100	Adjusts the way the body sounds when TYPE is set to S → HOLLOW, H → HOLLOW, S → AC, H → AC or P → AC.  The body sound increases as the value is raised; reducing the value produces a tone similar to that from a piezo pickup.
LEVEL	0–100	Adjusts the volume of the effect sound.

## AC. GUITAR SIM

MONO

This effect simulates the tonal character of an acoustic guitar.

Parameter	Value	Explanation
BODY	0–100	Adjusts the body resonance.
LOW	-50+50	Specifies the sense of volume for the low-frequency range.
HIGH	-50+50	Specifies the sense of volume for the high-frequency range.
LEVEL	0–100	Specifies the volume of the effect.

## AC. PROCESSOR

MONO

This processor allows you to change the sound produced by the pickup on an acoustic electric guitar, creating a richer sound similar to that obtained with a microphone placed close to the guitar.

Parameter	Value	Explanation
TYPE	Selects the modeling type.	
	SMALL	This is the sound of a small-bodied acoustic guitar.
	MEDIUM	This is a standard, unadorned acoustic guitar sound.
	BRIGHT	This is a bright acoustic guitar sound.
	POWER	This is a powerful acoustic guitar sound.
BASS	-50→+50	Adjusts the tone for the low frequency range.
MIDDLE	-50→+50	Adjusts the midrange balance.
TREBLE	-50→+50	Adjusts the tone for the high frequency range.
PRESENCE	-50→+50	Adjusts the balance in the extended upper range.
LEVEL	0–100	Adjusts the volume.
MIDDLE FREQ	20.0 Hz–10.0 kHz	Specifies the frequency range to be adjusted with Middle.



## WAVE SYNTH

MONO

This is a synth sound that processes the guitar input signal.

\* When you use a wave synthesizer, observe the following points.

- Because of the need to analyze the pitch, chords (two or more sounds played simultaneously) cannot be played. Be sure to mute all the other strings and play only one note at a time.
- If the unit cannot detect the attack, it may not sound correctly. If the unit cannot detect the attack, it may not sound correctly.
- The sensitivity may vary according to the guitar's TONE knob and pickup type.

Parameter	Value	Explanation
WAVE	Selects a wave type which the synth sound is based.	
	SAW	Creates a synth sound with a saw waveform (  ).
	SQUARE	Creates a synth sound with the square waveform (  ).
CUTOFF	0–100	Adjusts the frequency where the harmonics contents of the sound are cut off.
RESONANCE	0–100	Adjusts the amount of resonance (and the tone coloration) in the synth sound. The higher the value, the more the synth tone coloration is emphasized.
SYNTH LEVEL	0–100	Adjusts the volume of the synth sound.
FILTER SENS	0–100	Adjusts the amount of filtering applied in response to the input.
FILTER DECAY	0–100	This sets the time needed for the filter to finish its sweep.
FILTER DEPTH	0–100	Adjusts the depth of the filter. When the value is higher, the filter will change more drastically.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

## OCTAVE

MONO

This adds a note one octave lower, creating a richer sound.

Parameter	Value	Explanation
RANGE	This selects the register to which the effect is applied.	
	RANGE 1 (B1–E6)	B1 (corresponds to the sound of an open 7th string) to E6 (corresponds to the 1st string played at the 24th fret)
	RANGE 2 (B1–E5)	B1 (corresponds to the sound of an open 7th string) to E5 (corresponds to the 1st string played at the 12th fret)
	RANGE 3 (B1–E4)	B1 (corresponds to the sound of an open 7th string) to E4 (corresponds to the sound of an open 1st string)
	RANGE 4 (B1–E3)	B1 (corresponds to the sound of an open 7th string) to E3 (corresponds to the 4th string played at the 2nd fret)
EFFECT LEVEL	0–100	Adjusts the volume of the sound one octave below.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

## HEAVY OCTAVE

MONO

This adds sound lowered by an octave to the original sound. Since you can play chords even when using this effect, you can use it to fatten the sound of your chordal playing as well.

Parameter	Value	Explanation
1OCT LEVEL	0–100	Adjusts the volume of the sound one octave below.
2OCT LEVEL	0–100	Adjusts the volume of the sound two octaves below.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

## PITCH SHIFTER

MONO

This effect changes the pitch of the original sound (up or down) within a range of two octaves.

Parameter	Value	Explanation
VOICE	Selects the number of voices for the pitch shift sound.	
	1VOICE	One-voice pitch-shifted sound output in monaural.
	2VOICE	Two-voice pitch-shifted sound (PS1, PS2) output in monaural.
PS1:PITCH PS2:PITCH	-24→+24	Adjusts the amount of pitch shift (the amount of interval) in semitone steps.
1:LEVEL 2:LEVEL	0–100	Adjusts the volume of the pitch shifter.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
PS1:MODE PS2:MODE	Selection for the pitch shifter mode.	
	FAST, MEDIUM, SLOW	The response is slower in the order of FAST, MEDIUM and SLOW, but the modulation is lessened in the same order.
	MONO	MONO is used for inputting single notes. * You may be unable to produce the intended effect when playing chords (two or more notes played simultaneously).
PS1:FINE PS2:FINE	-50→+50	Make fine adjustments to the interval. The amount of the change in the Fine 100 is equivalent to that of the Pitch 1.
PS1:PRE DELAY PS2:PRE DELAY	0–300 ms	Adjusts the time from when the direct sound is heard until the pitch shifted sounds are heard. Normally you can leave this set at 0 ms.
PS1:FEEDBACK	0–100	Adjusts the feedback amount of the pitch shift sound.



## HARMONIST

MONO

Harmonist is an effect where the amount of shifting is adjusted according to an analysis of the guitar input, allowing you to create harmony based on diatonic scales.

- \* Because of the need to analyze the pitch, chords (two or more sounds played simultaneously) cannot be played. Be sure to mute all the other strings and play only one note at a time.
- \* If the unit cannot detect the attack, it may not sound correctly. If the unit cannot detect the attack, it may not sound correctly.
- \* The sensitivity may vary according to the guitar's TONE knob and pickup type.

Parameter	Value	Explanation
VOICE	Selects the number of voices for the pitch shift sound.	
	1VOICE	One pitch-shifted voice is output in monaural.
	2VOICE	Two pitch-shifted voices are output in monaural.
HR1:HARMONY HR2:HARMONY	-2 oct--+2 oct, USER	This determines the pitch of the sound added to the input sound, when you are making a harmony. It allows you to set it by up to 2 octaves higher or lower than the input sound. When the scale is set to USER, this parameter sets the user scale number to be used.
MASTER KEY	C (Am)–B (G#m)	The key setting corresponds to the key of the song (#, b) as follows.  <div> <p><b>Major</b> C F B<sup>b</sup> E<sup>b</sup> A<sup>b</sup> D<sup>b</sup></p> <p><b>Minor</b> Am Dm Gm Cm Fm B<sup>b</sup>m</p> <p><b>Major</b> C G D A E B F<sup>#</sup></p> <p><b>Minor</b> Am Em Bm F<sup>#</sup>m C<sup>#</sup>m G<sup>#</sup>m D<sup>#</sup>m</p> </div>
DIR.MIX (DIRECT MIX)	0–100	Adjusts the volume of the direct sound.
HR1:PRE DELAY HR2:PRE DELAY	0–300 ms,	Adjusts the time from when the direct sound is heard until the harmonist sounds are heard. Normally you can leave this set at 0 ms.
HR1:FEEDBACK	0–100	Adjusts the feedback amount of the harmonist sound.
HR1:LEVEL HR2:LEVEL	0–100	Adjusts the volume of the harmony sound.

Parameter	Value	Explanation
USER SCALE *1 *2	C	-24▼C--+24▲C
	Db	-24▼D <sub>b</sub> --+24▲D <sub>b</sub>
	D	-24▼D--+24▲D
	Eb	-24▼E <sub>b</sub> --+24▲E <sub>b</sub>
	E	-24▼E--+24▲E
	F	-24▼F--+24▲F
	F#	-24▼F <sub>#</sub> --+24▲F <sub>#</sub>
	G	-24▼G--+24▲G
	Ab	-24▼A <sub>b</sub> --+24▲A <sub>b</sub>
	A	-24▼A--+24▲A
	Bb	-24▼B <sub>b</sub> --+24▲B <sub>b</sub>
	B	-24▼B--+24▲B

You can specify a pitch in the range two octaves above or below the direct sound.

\*1 This can be specified if HR1:HARMONY or HR2:HARMONY is "USER".

\*2 The correspondence between the note names and the knobs differs depending on the specified KEY. Knob [1] of the first page is the tonic (root note) of the specified KEY. The table shows the example of when KEY is set to C (Am).

## HUMANIZER

MONO

This can create human vowel-like sounds.

Parameter	Value	Explanation
MODE	This sets the mode that switches the vowels.	
	PICKING	It changes from VOWEL 1 to VOWEL 2 along with the picking. The time spent for the change is adjusted with the rate.
	AUTO	By adjusting the rate and depth, two vowels (VOWEL 1 and VOWEL 2) can be switched automatically.
VOWEL 1	a, e, i, o, u	Selects the first vowel.
VOWEL 2	a, e, i, o, u	Selects the second vowel.
RATE	0–100	Adjusts the cycle for changing the two vowels.
DEPTH	0–100	Adjusts the depth of the effect.
LEVEL	0–100	Adjusts the volume.
SENS *1	0–100	Adjusts the sensitivity of the humanizer. When it is set to a lower value, no effect of the humanizer is obtained with weaker picking, while stronger picking produces the effect. When it is set to a higher value, the effect of the humanizer can be obtained whether the picking is weak or strong.
MANUAL *2	0–100	Adjusts the cycle for changing the two vowels. When it is set to lower than 50, the time for VOWEL 1 is shorter. When it is set to higher than 50, the time for VOWEL 1 is longer.

\*1 Setting available when MODE is set to PICKING.

\*2 Setting available when MODE is set to AUTO.

## PHASER 90E

MONO

This models an MXR EVH-90 Phase Shifter.

Parameter	Value	Explanation
SCRIPT	OFF, ON	Switches the character of the phaser. OFF: Modern ON: Vintage
SPEED	0–100	Sets the rate and the depth of the phaser effect.

## FLANGER117E

MONO

This models an MXR EVH-117 Flanger.

Parameter	Value	Explanation
MANUAL	0–100	Adjusts the center frequency at which to apply the effect.
WIDTH	0–100	Determines the depth of the flanging effect.
SPEED	0–100	This sets the rate of the flanging effect.
REGEN.	0–100	Determines the amount of feedback. Increasing the value will emphasize the effect, creating a more unusual sound.

## KATANA Mk II Effect Parameter List

### WAH 95E

MONO

This models a Jim Dunlop EVH-95 Wah pedal. You can control the wah effect in real time by adjusting the expression pedal connected to the SEL CH1 CH2/EXP PEDAL jack on the rear panel, or to the rear panel of the GA-FC foot controller (sold separately).

Parameter	Value	Explanation
PEDAL POS (PEDAL POSITION)	0–100	Adjusts the position of the wah pedal. * This parameter is used after it's been assigned to an EXP Pedal or similar controller.
PEDAL MIN	0–100	Selects the tone produced when the heel of the EXP Pedal is depressed.
PEDAL MAX	0–100	Selects the tone produced when the toe of the EXP Pedal is depressed.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

### DC-30

STEREO

This models a Roland DC-30.

Parameter	Value	Explanation
TYPE	CHORUS	Chorus effect
	ECHO	Echo effect
CHORUS INTENSITY	0–100	Adjust the depth of the chorus effect. * Only when TYPE is CHORUS.
ECHO REPEAT RATE	40–600 ms	Adjusts the delay time. * Only when TYPE is ECHO.
ECHO INTENSITY	0–100	Adjusts the volume that is returned to the input. A higher value will increase the number of the delay repeats. * Only when TYPE is ECHO.
ECHO LEVEL	0–100	Adjusts the volume of the delay sound. * Only when TYPE is ECHO.
INPUT VOLUME	0–100	Adjusts the input level.
TONE	-50–+50	Adjusts the tone.
OUTPUT	D/E	Direct sound and effect sound are output respectively.
	D+E	Direct sound and effect sound are mixed and output.

### PEDAL BEND

MONO

You can get a pitch bend effect in real time by adjusting the expression pedal connected to the SEL CH1 CH2/EXP PEDAL jack on the rear panel, or to the rear panel of the GA-FC foot controller (sold separately).

Parameter	Value	Explanation
PEDAL POSITION	0–100	Adjusts the pedal position for pedal bend. * This parameter is used after it's been assigned to an expression pedal or similar controller.
PEDAL MAX	-24–+24	This sets the pitch at the point where the expression pedal is all the way down.
EFFECT LEVEL	0–100	Adjusts the volume of the effect sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.

### DELAY/DELAY 2

MONO

This effect adds delayed sound to the direct sound, giving more body to the sound or creating special effects.

#### DELAY Type

TYPE	Explanation
DIGITAL	This is a simple monaural delay.
PAN	This allows you to obtain the tap delay effect that divides the delay time, then deliver them to L and R channels.
STEREO	This is a stereo-in/out delay.
ANALOG	This gives a mild analog delay sound.
TAPE ECHO	This setting provides the characteristic wavering sound of the tape echo.
REVERSE	This produces an effect where the sound is played back in reverse.
MODULATE	This delay adds a pleasant wavering effect to the sound.
SDE-3000	This models the sound of the Roland SDE-3000.

#### DELAY Parameters

Parameter	Value	Explanation
TYPE	Refer to DELAY Type	
DELAY TIME	1–2000 ms	Adjusts the delay time.
FEEDBACK	0–100	Adjusts the volume that is returned to the input. A higher value will increase the number of the delay repeats.
HIGH CUT	630 Hz–12.5 kHz, FLAT	This sets the frequency at which the high cut filter begins to take effect. When "FLAT" is selected, the high cut filter will have no effect.
TAP TIME	0–100%	Adjusts the delay time of the right channel delay. This setting adjusts the R channel delay time relative to the L channel delay time (considered as 100%). * Only when TYPE is PAN.
EFFECT LEVEL	0–120	Adjusts the volume of the delay sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
MOD RATE (MODULATION RATE)	0–100	Adjusts the modulation rate of the delay sound. * Only when TYPE is MODULATE or SDE-3000.
MOD DEPTH (MODULATION DEPTH)	0–100	Adjusts the modulation depth of the delay sound. * Only when TYPE is MODULATE or SDE-3000.
MOD SW (MODULATION SW)	OFF, ON	Turns the modulation on/off. * Only when TYPE is SDE-3000.
FILTER	OFF, ON	Turns the filter on/off. * If this is on, a natural-sounding effect is obtained when you're using the delay as an echo. * Only when TYPE is SDE-3000.
RANGE	8kHz, 17kHz	* Models the way in which the SDE-3000's frequency response is affected by the delay range. * Only when TYPE is SDE-3000.
DELAY PHASE	NORMAL, INVERSE	Specifies the phase of the delay sound. Selecting INV inverts the phase. * Only when TYPE is SDE-3000.
FEEDBACK PHASE	NORMAL, INVERSE	Specifies the phase of the delay sound feedback. Selecting INV inverts the phase. * Only when TYPE is SDE-3000.



## REVERB



This effect adds reverberation to the sound.

## REVERB Type

TYPE	Explanation
PLATE	Simulates plate reverberation (a reverb unit that uses the vibration of a metallic plate). Provides a metallic sound with a distinct upper range.
ROOM	Simulates the reverberation in a small room. Provides warm reverberations.
HALL 1	Simulates the reverberation in a concert hall. Provides clear and spacious reverberations.
SPRING	This simulates the sound of a guitar amp's built-in spring reverb.
MODULATE	This reverb adds the wavering sound found in hall reverb to provide an extremely pleasant reverb sound.

## REVERB Parameters

Parameter	Value	Explanation
TYPE	Refer to REVERB Type	
REVERB TIME	0.1–10.0 s	Adjusts the length (time) of reverberation.
PRE DELAY	0–500 ms	Adjusts the time until the reverb sound appears.
EFFECT LEVEL	0–100	Adjusts the volume of the reverb sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
LOW CUT	FLAT, 20 Hz–800 Hz	This sets the frequency at which the low cut filter begins to take effect. When "FLAT" is selected, the low cut filter will have no effect.
HIGH CUT	630 Hz–12.5 kHz, FLAT	This sets the frequency at which the high cut filter begins to take effect. When "FLAT" is selected, the high cut filter will have no effect.
DENSITY	0–10	Adjusts the density of the reverb sound.
COLOR (TYPE = SPRING only)	0–100	Adjust the unique tone of the spring reverb.

## EQ



This adjusts the tone.

## PARAMETRIC EQ



You can adjust the sound quality in four bands.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
LOW GAIN	-20–+20 dB	Adjusts the low frequency range tone.
LOW-MID GAIN	-20–+20 dB	Adjusts the low-middle frequency range tone.
HIGH-MID GAIN	-20–+20 dB	Adjusts the high-middle frequency range tone.
HIGH GAIN	-20–+20 dB	Adjusts the high frequency range tone.
LEVEL	-20–+20 dB	Adjusts the overall volume level of the equalizer.
LOW-MID FREQUENCY	20 Hz–10.0 kHz	Specifies the center of the frequency range that will be adjusted by the LOW-MID GAIN.
LOW-MID Q	0.5–16	Adjusts the width of the area affected by the EQ centered at the LOW-MID FREQ. Higher values will narrow the area.
HIGH-MID FREQUENCY	20 Hz–10.0 kHz	Specifies the center of the frequency range that will be adjusted by the HIGH-MID GAIN.
HIGH-MID Q	0.5–16	Adjusts the width of the area affected by the EQ centered at the HIGH-MID FREQ. Higher values will narrow the area.
LOW CUT	FLAT, 20 Hz–800 Hz	This sets the frequency at which the low cut filter begins to take effect. When "FLAT" is selected, the low cut filter will have no effect.
HIGH CUT	630 Hz–12.5 kHz, FLAT	This sets the frequency at which the high cut filter begins to take effect. When "FLAT" is selected, the high cut filter will have no effect.
POSITION	AMP IN	Positions the EQ in front of the amplifier unit within the KATANA's effect chain.
	AMP OUT	Positions the EQ behind the amplifier unit within the KATANA's effect chain.

## GE-10



This models a BOSS GE-10 graphic equalizer. You can adjust the sound quality in ten bands.

Parameter	Value	
31 Hz	-12--+12 dB	
62 Hz		
125 Hz		
250 Hz		
500 Hz		
1 kHz		
2 kHz		
4 kHz		
8 kHz		
16 kHz		
LEVEL	-12--+12 dB	
POSITION	AMP IN	Positions the EQ in front of the amplifier unit within the KATANA's effect chain.
	AMP OUT	Positions the EQ behind the amplifier unit within the KATANA's effect chain.

## NS (NOISE SUPPRESSOR)

MONO

This effect reduces the noise and hum picked up by guitar pickups. Since it suppresses the noise in synchronization with the envelope of the guitar sound (the way in which the guitar sound decays over time), it has very little effect on the guitar sound, and does not harm the natural character of the sound.

## NS Parameters

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
THRESHOLD	0–100	Adjust this parameter as appropriate for the volume of the noise. If the noise level is high, a higher setting is appropriate. If the noise level is low, a lower setting is appropriate. * High settings for the threshold parameter may result in there being no sound when you play with your guitar volume turned down.
RELEASE	0–100	Adjusts the time from when the noise suppressor begins to function until the noise level reaches “0”.

## SEND/RETURN

MONO

These are settings for the EFFECT LOOP (SEND/RETURN) jacks.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns this effect on/off.
POSITION	POST AMP, POST REV	Specifies the position at which the external effect unit is connected within the KATANA's effect chain.
MODE	SERIES, PARALLEL	Specifies whether the external effect unit is connected in series or in parallel.
SEND LEVEL	0–100	Adjusts the volume of the output to the external effects device.
RETURN LEVEL	0–100	Adjusts the volume of the input from the external effects device.

\* The S/R setting is valid if a plug is connected to the RETURN jack.

## SOLO

MONO

Adjusts the volume and tonal character when using solo.

Parameter	Value	Explanation
SOLO ON/OFF	OFF, ON	Switches the solo function on/off.
SOLO LEVEL	0–100	Adjusts the volume when the solo function is ON.

## SOLO EQ Parameters

You can adjust the sound quality in three bands.

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns the equalizer on/off when the solo function is ON.
POSITION	AMP-IN, AMP-OUT	Selects whether to place the equalizer before the preamp (INPUT) or after the preamp (OUTPUT).
LOW CUT	FLAT–800 Hz	This sets the frequency at which the low cut filter begins to take effect. When “FLAT” is selected, the low cut filter will have no effect.
LOW GAIN	–12–+12 dB	Adjusts the middle frequency range tone.
MID FREQUENCY	20 Hz–10 kHz	Specifies the center of the frequency range that will be adjusted by the MID GAIN.
MID Q	0.5–16	Adjusts the width of the area affected by the EQ centered at the MID FREQUENCY. Higher values will narrow the area.
MID GAIN	–12–+12 dB	Adjusts the middle frequency range tone.
HIGH GAIN	–12–+12 dB	Adjusts the high frequency range tone.
HIGH CUT	630 Hz–FLAT	This sets the frequency at which the high cut filter begins to take effect. When “FLAT” is selected, the high cut filter will have no effect.
LEVEL	–12–+12 dB	Adjusts the overall volume level of the equalizer.

## SOLO DELAY Parameters

Only for Artist, Artist HEAD

Parameter	Value	Explanation
ON/OFF	OFF, ON	Turns the delay on/off when the solo function is ON.
DELAY TIME	1–2000 ms	Adjusts the delay time.
FEEDBACK	0–100	Adjusts the volume that is returned to the input. A higher value will increase the number of the delay repeats.
CARRYOVER	OFF, ON	Specifies whether the effect sound is carried-over (ON) or not carried-over (OFF) when you switch sounds or turn off the delay.
EFFECT LEVEL	0–120	Adjusts the volume of the delay sound.
DIRECT MIX	0–100	Adjusts the volume of the direct sound.
FILTER	OFF, ANALOG, TAPE ECHO	Switches between filter settings. This offers natural-sounding effects like analog delay or tape echo.
HIGH CUT	630 Hz–12.5 kHz, FLAT	This sets the frequency at which the high cut filter begins to take effect. When “FLAT” is selected, the high cut filter will have no effect.
MOD SW (MODULATION SW)	OFF, ON	Turns the modulation on/off.
MOD RATE (MODULATION RATE)	0–100	Adjusts the modulation rate of the delay sound.
MOD DEPTH (MODULATION DEPTH)	0–100	Adjusts the modulation depth of the delay sound.