



SH-4d

Owner's Manual

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An Overview of the SH-4d

The SH-4d is a Desktop Synthesizer that lets you switch between a variety of oscillator models to intuitively create a wide range of sounds.

A variety of options for creating sounds

The newly interpreted oscillator model featured on this unit lets you create a wide array of sounds, from classic synthesizers to modern wavetable synthesizer sounds.

Also, the rhythm part lets you build new and original kits by combining and processing a rich selection of built-in waveforms.

Step sequencer

There are four tone parts and one rhythm part, and each part features a step sequencer.

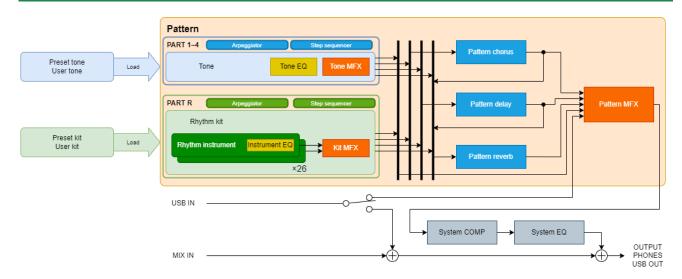
You can input sequences using a variety of methods like TR-REC, real-time input and step input, and trigger all the parts at the same time.

As well as recording notes, you can also record and playback the knob motions at the same time.

Phrase creation

Besides a standard arpeggiator, this unit features unique functionality like D-MOTION and VISUAL ARPEGGIO, offering stimulating modes of creative expression for both musicians and producers.

How the Sound Module is Structured



Pattern

A "pattern" contains step sequencer data, settings for all parts (including tone number, pan, volume and so on), pattern effect settings, arpeggiator settings, all in one place.

By preparing several patterns in which you've stored your favorite settings, you can simultaneously change numerous settings simply by switching patterns.

Each SH-4d can store a total of 128 patterns, organized as eight banks of 16 patterns.

Part

A "part" is a place where you can load a tone and save it together with settings such as pan and EQ.

The SH-4d contains five parts. You can select synthesizer tones for parts 1-4 and a rhythm kit tone for part R (the rhythm part).

The part whose sound you can edit with the controllers and play using the keyboard buttons is called the "current part".

→ "Switching Between Parts(P.16)"

Tone

The sounds that you play in different pitches on the keyboard are called "tones".

A tone consists of an oscillator (OSC) that creates the basis of the sound, along with a filter, effect and other components to modify that sound.

Rhythm kit

You can load instruments for rhythm sounds (rhythm instruments) into the set for part R.

One rhythm instrument can be assigned to each keyboard button to play.

A rhythm instrument consists of an oscillator (OSC) that stacks and plays back two built-in waveforms, along with a filter, effect and other components to modify that sound.

D-MOTION

With this function, the tone parameter you set changes according to how you tilt this unit.

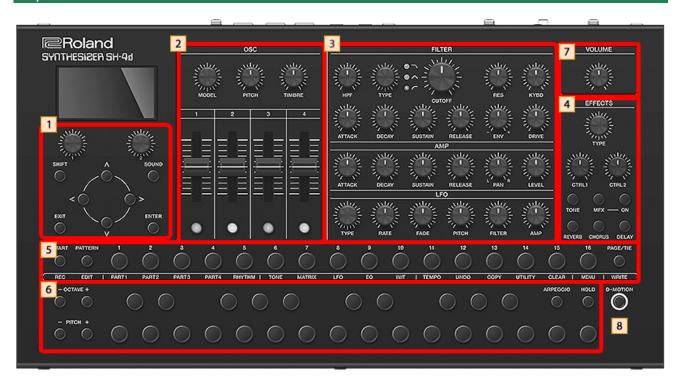
You can use the Matrix function at the same time to control many different parameters.

Panel Descriptions

Top Panel (P.6)

Rear Panel (P.11)

Top Panel



1 Control section

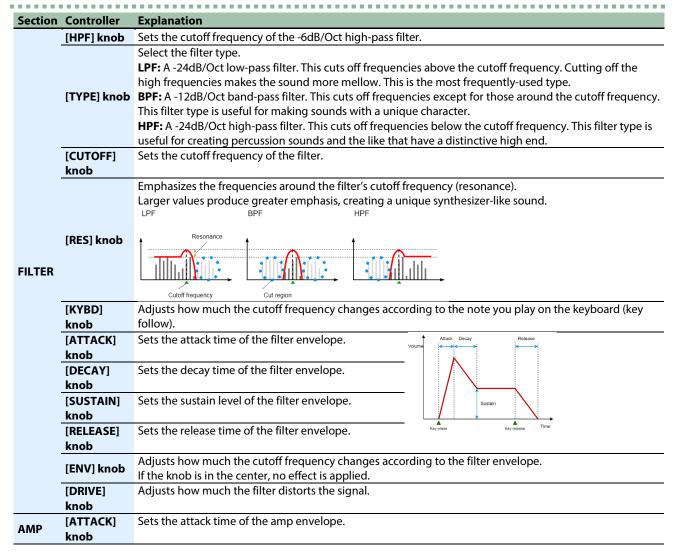
| Controller | Explanation | |
|---------------|--|--|
| [SOUND] | Displays the tone list (sound browser) and switches between sounds (tones). | |
| button | When you press this button on the pattern screen, the mixer screen appears. | |
| | → "Adjusting the Volume Balance and Effect Sends(P.20)" | |
| | When you press the [START], [PATTERN], [1]–[16] or [PAGE/TIE] buttons while holding down the [SHIFT] button, | |
| [SHIFT] | the operation listed below the respective button is executed. | |
| button | For the other buttons, a menu screen or the like corresponding to the button is shown. | |
| 2011011 | *Functions when holding down the [SHIFT] button and pressing the [START], [PATTERN], [1]–[16] and [WRITE] | |
| | buttons" | |
| | Selects and sets the items on the screen. | |
| | On the list screen, use the [1] knob to select the parameter and use the [2] knob to set the value. | |
| | On the top screen and similar screens, edit the parameters that are shown at the bottom of the screen. | |
| | On some screens, you can turn a knob while pressing it to change the value in steps of 10. | |
| | 001Brilliant 1 | |
| | | |
| | □ N □ Sa(s)/. | |
| [1] [2] knobs | | |
| | SEL SH-4d WAVE | |
| | | |
| | Control this using the [1] Control this using the [2] knob. knob. | |

| Controller | Explanation |
|------------------|--|
| [<][>][\] | Selects and sets the items on the screen. |
| [V] | |
| buttons | |
| [ENTER] | Used for confirming a value or executing an operation. |
| button | |
| | Returns you to the previous screen. |
| (EVIT) | In some screens, this cancels the operation currently being executed. |
| [EXIT] button | * If you operate a knob or other control while holding down the [EXIT] button, you can check the current value of the parameter without changing the tone. |

²OSC section

| Controller | Explanation |
|-------------------------|---|
| | The function changes depending on the currently selected part (current part). |
| [MODEL] knob | For parts 1–4 (tone parts), this switches between oscillator models. |
| | For part R (rhythm part), this sets the waveform of the selected rhythm instrument. |
| [PITCH] knob | Sets the pitch in semitone units. |
| | Changes the tonal quality of the oscillator tone. |
| [TIMBRE] knob | The functions of this control change depending on the oscillator model. |
| | → "Oscillator Model(P.25)" |
| [OSC 1]–[OSC 4] sliders | The functions of these controls change depending on the oscillator model. |
| [OSC 1]-[OSC 4] buttons | → "Oscillator Model(P.25)" |

3FILTER/AMP/LFO section



| Section | Controller | Explanation |
|---------------|-------------|---|
| <u>Jeanon</u> | [DECAY] | Sets the decay time of the amp envelope. |
| | knob | , ' |
| | [SUSTAIN] | Sets the sustain level of the amp envelope. |
| | knob | |
| | [RELEASE] | Sets the release time of the amp envelope. |
| | knob | |
| | [PAN] knob | Sets the panning of each part's sound when using stereo output. |
| | [LEVEL] | Adjusts the part volume. |
| | knob | |
| | [TYPE] knob | Sets the LFO waveform. |
| | | SINE: sine wave |
| | | TRI: triangle wave |
| | | SAW-UP: sawtooth wave |
| | | SAW-DW: sawtooth wave (negative polarity) |
| | | SQR: Square wave |
| | | RND: Random wave |
| | | TRP: Trapezoidal wave |
| | | S&H: Sample & hold wave (randomly changes the output value once per cycle). CHS: Chaos wave |
| 150 | | VSINE: Deformed sine wave (randomly changes the amplitude of the sine wave once per cycle). |
| LFO | | Sets the speed of the LFO cycle. |
| | [RATE] | The LFO cycle (rate) is set as a note length when the Rate Sync in the LFO setting is "ON". |
| | knob | → "Configuring the LFO(P.42)" |
| | [FADE] | Sets how long it takes for the LFO to reach maximum amplitude. |
| | knob | , i |
| | [PITCH] | Sets how much the LFO affects the pitch. |
| | knob | |
| | [FILTER] | Sets how much the LFO affects the cutoff frequency. |
| | knob | |
| | [AMP] knob | Sets how much the LFO affects the volume. |

4 Effects section

The SH-4d features one multi-effect unit (Tone MFX) per part, as well as four pattern effect units (Multi-effect (MFX), Delay, Chorus and Reverb) that are applied to the mix of all parts.

Before using the [CTRL 1] and [CTRL 2] knobs to operate the effects, press the [TONE]–[DELAY] buttons in the effect section to select the effect you want to operate.

* For details on the effects, refer to "MFX Parameters(P.86)".

| Controller | Explanation | |
|----------------------------|---|--|
| [TYPE] knob | Switches between the type of effect you select. Press the knob to turn the selected effect on/off. If the tone effect or a pattern MFX is selected, turn the knob while pressing it to switch between effect categories. | |
| [CTRL 1] [CTRL 2] knobs | Sets the parameters for the effect you selected. If you've selected Pattern Reverb/Chorus/Delay, use the [CTRL 1] knob to set the send amount to each effect. * If you operate a knob or other control while holding down the [EXIT] button, you can check the parameter to which the knob is assigned and the current value without changing the tone. * With the rhythm part, the [CTRL 1] knob selects the send amount of each effect, but only for the instrument that's selected by the keyboard buttons. To enable the effect send for each instrument, raise the Reverb/Chorus/Delay Send level for the rhythm part on the MIXER screen. For details, refer to "Adjusting the Volume Balance and Effect Sends(P.20)". | |
| [TONE] button | Quick press: Selects the tone effect. | |
| [MFX] button | Quick press: Selects the pattern MFX. Long-press: Shows the pattern MFX settings screen. → "MFX Parameters(P.86)" | |

| Controller | Explanation |
|--------------------|--|
| MFX [ON] | Switches the pattern MFX on/off, regardless of which effect is selected. |
| button | |
| | Quick press: Selects the pattern reverb. |
| [REVERB] button | Long-press: Shows the pattern reverb settings screen. |
| | → "PATTERN REVERB(P.174)" |
| [CHOPHE] | Quick press: Selects the pattern chorus. |
| [CHORUS] button | Long-press: Shows the pattern chorus settings screen. |
| button | → "PATTERN CHORUS(P.169)" |
| | Quick press: Selects the pattern delay. |
| [DELAY] button | Long-press: Shows the pattern delay settings screen. |
| | → "PATTERN DELAY(P.172)" |

MEMO

Hold down the [SHIFT] button and press each button in the effect section to display the setting screen for each effect.

5 Step sequencer section

| Controller | Explanation | |
|------------------|---|--|
| [START] button | Plays/stops the sequencer. | |
| [PATTERN] | Turn this on (the button lights up) to switch to the PATTERN screen. The unit enters pattern mode. | |
| button | | |
| [1] [16] huttons | Use these to input notes into the step sequencer. | |
| [1]–[16] buttons | When in pattern mode, this selects the pattern. | |
| | Switches between the sequencer steps (pages) that are operated with the [1]–[16] buttons. | |
| [PAGE/TIE] | When you're editing with the sequencer, this inputs a tie. | |
| button | In pattern mode, press the [1]–[8] buttons while holding down the [PAGE/TIE] button to switch between | |
| | pattern banks. | |

Functions when holding down the [SHIFT] button and pressing the [START] [PATTERN], [1]–[16] and [WRITE] buttons

| [16] and [WRITE] buttons | |
|--------------------------|--|
| Controller | Explanation |
| [START] (REC) | Switches the step sequencer to Realtime Rec mode. |
| [START] (REC) | → "Recording Your Performance in Real Time (Real-time Input)(P.59)" |
| [PATTERN] (EDIT) | Shows the PATTERN SETTINGS screen. |
| [1] (PART1) | Selects part 1. |
| [2] (PART2) | Selects part 2. |
| [3] (PART3) | Selects part 3. |
| [4] (PART4) | Selects part 4. |
| [5] (RHYTHM) | Selects part R. |
| [6] (TONE) | Shows either the TONE screen or the RHYTHM KIT screen. |
| [O] (TONE) | → "Configuring a Tone(P.37)" |
| [7] (MATRIX) | Shows the MATRIX screen. |
| [7] (1121111171) | → "Using the Modulation Matrix(P.39)" |
| [8] (LFO) | Shows the LFO screen. |
| | → "Configuring the LFO(P.42)" |
| [9] (EQ) | Shows the TONE EQ screen. |
| | → "Configuring the Tone EQ(P.43)" |
| [10] (INIT) | When the current part is a tone part: Initializes the tone. |
| , , | When the current part is the rhythm part: Initializes the rhythm kit or rhythm instrument. |
| [11] (TEMPO) | Shows the PATTERN TEMPO screen. |
| | → "Setting the Tempo and Shuffle(P.53)" |
| [12] (UNDO) | Undoes the most recent sequencer operation, such as the note you inputted or deleted (UNDO). |
| | Press this again to cancel your most recent undo action (REDO). Shows the COPY screen. |
| [13] (COPY) | → "Copying and Pasting the Content of Patterns(P.69)" |
| | Shows the PATTERN UTILITY screen. |
| [14] (UTILITY) | → "Pattern Utilities(P.68)" |
| | When the current part is a tone part: Erases all notes in the step sequencer. |
| | When the current part is the rhythm part: Erases all notes for all instruments or for the current instrument |
| [15] (CLEAR) | in the step sequencer. |
| | On the PATTERN screen, this erases all notes in all parts. |
| | , and the property of the second seco |

| Controller | Explanation | | | |
|-------------|--|--|--|--|
| [16] (MENU) | Shows the MENU screen. | | | |
| [16] (MENU) | → "Main Menu (MENU)(P.76)" | | | |
| [PAGE/TIE] | Shows the WRITE MENU screen. | | | |
| (WRITE) | → "Saving a Tone/Pattern (WRITE MENU)(P.73)" | | | |

6 Keyboard section

| Controller | Explanation | | | |
|----------------------|--|--|--|--|
| OCTAVE [-] [+] | Switches between octaves for the keyboard section. | | | |
| buttons | Press both buttons at the same time to reset the octave setting. | | | |
| PITCH [-] [+] | Applies pitch bend to the currently selected part while you hold down the buttons. | | | |
| buttons | | | | |
| Keyboard buttons | Use these buttons as a keyboard. These can be used in combination with the [1]–[16] buttons to input notes into the sequencer. For part R, this selects the instrument to edit. * Press a keyboard button while holding down the [SHIFT] button when you want to change the instrument to edit without making it sound. | | | |
| [ARPEGGIO] button | Turns the arpeggio on/off. Use this with the [SHIFT] button to show the settings screen. → "Using the Arpeggiator(P.49)" | | | |
| [HOLD] button | Turns the arpeggio hold on/off. | | | |

7[VOLUME] knob

Adjusts the volume.

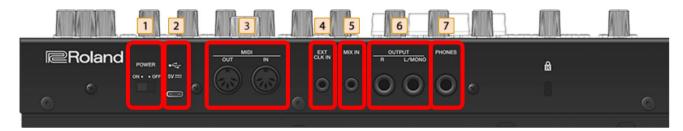
8 [D-MOTION] button

Turns the D-Motion function on/off, which controls the tones according to the angle at which this unit is tilted.

For details, refer to "Using D-MOTION(P.71)".

* When using this function, firmly grip both sides of this unit and be careful that the connected cables are not excessively bent.

Rear Panel



1[POWER] switch

Turns the power on/off.

²USB Type-C[®] port

Connect the included USB Type-C cable to this port for supplying power to this unit from a 5V USB AC adaptor or from the USB port on your computer.

Connecting to your computer using the included USB Type-C cable also lets you exchange USB MIDI and USB audio data.

- * Do not use a USB cable that is designed only for charging. Charge-only cables cannot transmit data.
- * If you're using a Mac, the SH-4d driver must be installed to connect to this unit.

Access the website shown below to download the SH-4d Driver. https://roland.cm/sh-4d_dl

3 MIDI connectors

Connect a commercially available MIDI cable to these connectors to control the connected MIDI devices from this unit.

4EXT CLK IN jack

Use this jack to input clock signals from an external source. You can make the steps of the sequencer advance in sync with the clock (pulse) that's inputted.

* When a cable is inserted into the EXT CLK IN jack, this unit always operates in sync with the signals received from the EXT CLK IN jack, regardless of the Sync Mode setting on this unit.

"System Settings (SYSTEM SETTINGS)(P.76)"

* Use a cable with a monaural mini phone type plug to connect to the EXT CLK IN jack. Do not use a cable with a stereo mini phone type plug, as this cable does not work.

5MIX IN jack

Used for inputting audio. The sound from connected devices is output from the PHONES and OUTPUT jacks.

The signal input from the MIX IN jack is not output via USB audio.

OUTPUT jacks

Connect this jack to your amp or monitor speakers.

7PHONES jack

Used for connecting headphones.

Turning the Power On

* Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.

When supplying power via the USB port

- 1. Connect the included USB Type-C cable to a 5V USB AC adaptor or to the USB port on your computer.
- 2. To turn on the power, slide the [POWER] switch of this unit to "ON".

When supplying power via batteries

- 1. Insert the batteries by following the steps in "Installing the batteries".
- 2. To turn on the power, slide the [POWER] switch of this unit to "ON".



In places where small children are present, make sure that an adult provides supervision and guidance.

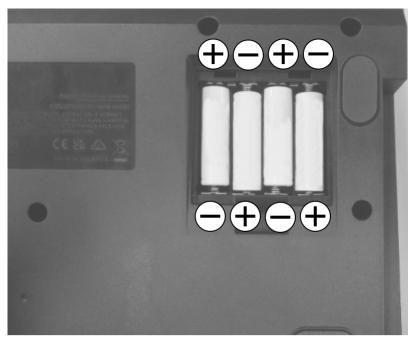
Installing the batteries

As an alternative to USB bus power, you can use commercially available AA nickel-metal hydride batteries or alkaline batteries to power the unit.

- * If USB bus power is being supplied, the unit uses USB bus power even if batteries are installed.
- 1. Remove the battery cover.

When turning the unit over, be careful so as to protect the buttons and knobs from damage. Also, handle the unit carefully; do not drop it.

2. Taking care to observe the correct orientation of the batteries, insert the batteries into the battery case.



3. Close the battery cover.

If you handle the battery improperly, you risk explosion and fluid leakage. Make sure that you carefully observe all of the items related to batteries that are listed in the "USING THE UNIT SAFELY" and "IMPORTANT NOTES" ("USING THE UNIT SAFELY") leaflets for proper use.

Battery replacement indicator

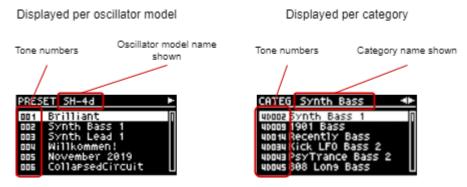
When the batteries have run down, the message "Battery Low!" appears on the screen.

When this occurs, install new batteries.

Switching Between Tones



- 1. On any screen besides the PATTERN screen, press the [SOUND] button to display the sound browser.
- Press the [SOUND] button to toggle between displaying the tones for each oscillator model, or the tones for each category.



- Use the [MODEL] knob or the [<] [>] buttons to select either the oscillator model or the category.
- 4. Turn the [1] and [2] knobs or the [A] [V] buttons to select a tone, and press the [ENTER] button to confirm.

MEMO

- You can use the keyboard buttons or an external keyboard to preview the selected tones.
- On the sound browser screen, press the [EXIT] button to reload the tone that was selected when you entered the sound browser.

| Abbreviations when displaying categories | | |
|--|----|--|
| SH-4d | 4D | |
| WAVETABLE | WT | |
| Cross FM | CF | |
| CHORD | СН | |
| DRAWING | DR | |
| SH-3D | 3D | |
| SH-101 | SH | |
| JUNO-106 | JU | |
| SYNC | SY | |
| RING | RI | |

| PCM | PC |
|-----------|----|
| User Tone | UT |

To save an edited tone, execute the write operation.

For details on how to save a tone, refer to "Saving a Tone/Pattern (WRITE MENU)(P.73)".

Switching Between Parts



1. Hold down the [SHIFT] button and press the [1]-[5] buttons.

The mark shown at the top-right corner of the screen indicates the current part.



Switching Between Patterns

NOTE

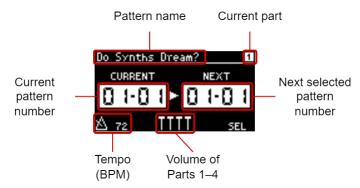
When you switch to a different pattern, the previous unsaved tone/pattern is lost. If you want to keep the unsaved tone or pattern, save the tone/pattern before switching patterns.



Using the [1]-[16] buttons to switch between patterns

1. Press the [PATTERN] button.

The PATTERN screen appears.



- 2. Hold down the [PAGE/TIE] button and press the [1]–[8] buttons to select the bank that contains the pattern you want to select.
- 3. Press the [1]-[16] buttons to select the pattern.

If a pattern is still playing back, the unit switches to the new pattern you select when the current pattern finishes playing back.

Using the [2] knob to switch patterns



 On the PATTERN screen, turn the [2] knob to make the button ([1]–[16]) blink that corresponds to the pattern you want to select.

Turn the [2] knob while holding down the [SHIFT] button to switch between banks.

2. When playing back the pattern, press the [ENTER] button to confirm the pattern.

Using the pattern browser to switch between patterns

1. Press the [ENTER] button on the PATTERN screen.

The PATTERN BROWSER screen appears.

2. Use the [1] or [2] knob or press the $[\land][\lor]$ buttons to select the pattern.

The unit automatically switches to the pattern you select once the current pattern finishes playing back.



To save the settings for a pattern you edit, execute the write operation.

For details on how to save a pattern, refer to "Saving a Tone/Pattern (WRITE MENU)(P.73)".

Muting a Part

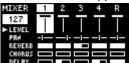


1. Press the [PATTERN] button.

The PATTERN screen appears.

2. Press the [SOUND] button.

The MIXER screen appears.



3. Use the [1]–[5] buttons and the keyboard buttons to mute the parts.

| Controller | Explanation |
|------------------|--|
| [1]-[5] buttons | Mutes/unmutes parts 1–4 and part R (RHYTHM). |
| Keyboard buttons | Mutes/unmutes rhythm instruments 1–26 for part R (RHYTHM). |

You can also hold down the [PATTERN] button while pressing one of the [1]–[5] buttons or a keyboard button to mute the parts and rhythm instruments.

Adjusting the Volume Balance and Effect Sends



Press the [PATTERN] button.

The PATTERN screen appears.

2. Press the [SOUND] button.

The MIXER screen appears, and the following operations are available.



| Controller | Explanation | |
|--|--------------------|--|
| [OSC 1]–[OSC 4] sliders Adjusts the volume of parts 1–4. | | |
| [TIMBRE] button Adjusts the volume of part R (RHYTHM). | | |
| [OSC 1]–[OSC 4] buttons | Selects parts 1–4. | |
| [1]–[5] buttons Mutes/unmutes parts 1–4 and part R (RHYTHM). | | |
| Keyboard buttons Mutes/unmutes rhythm instruments 1–26 for part R (RHYTHM). | | |

3. Use the [^] [V] [<] [>] buttons to select the following parameters, and set the values using the [2] knob.

| Parameter | Explanation | | | |
|--------------------|--|--|--|--|
| Mix Level | Sets the volume of each part. This parameter is different from the Part Level parameter that's set using the AMP [LEVEL] knob. | | | |
| Part Pan | Sets the pan position for the part's sound. | | | |
| Part Pan | This parameter is the same as the parameter that's set using the AMP [PAN] knob. | | | |
| Reverb Send | Specifies the send level to the pattern reverb. | | | |
| Chorus Send | Specifies the send level to the pattern chorus. | | | |
| Delay Send | Specifies the send level to the pattern delay. | | | |

MEMO

- For the rhythm part, the amount of signal sent to the pattern reverb/chorus/delay from each instrument is the value set for each instrument with the EFFECT [CTRL 1] knob, multiplied by the Reverb/Chorus/Delay Send value that's set on the MIXER screen. When adjusting the send amount with the [CTRL 1] knob, raise the Reverb/Chorus/Delay Send level on the MIXER screen.
- You can use the [OSC 1]–[OSC 4] sliders and the [TIMBRE] knob to adjust the volume of each part, even when the PATTERN screen is shown.

Initializing a Tone/Pattern (INITIALIZE)

Initializing a tone part

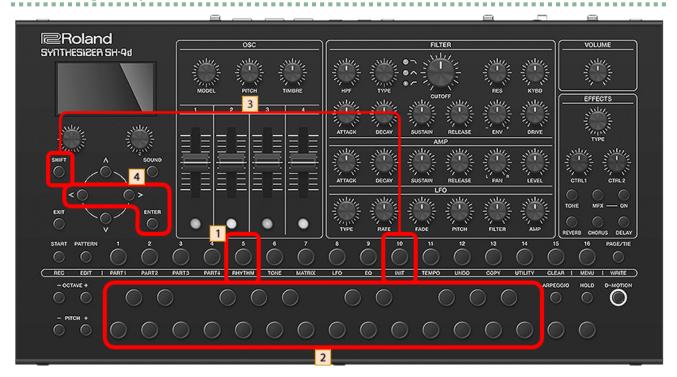


- 1. Set the part you want to initialize to the current part.
- 2. Hold down the [SHIFT] button and press the [10] button to display the dialog box.



3. Press the [ENTER] button.

Initializing a Rhythm Kit/Instrument



- 1. Set part R as the current part.
- 2. When initializing an instrument, press a keyboard button to select the instrument you want to initialize as the current instrument.
- 3. Hold down the [SHIFT] button and press the [10] button to display the dialog box.



4. Use the [<] [>] buttons to select what you want to initialize, and press the [ENTER] button.

Initializing a Pattern



- 1. Press the [PATTERN] button to display the PATTERN screen, and select the pattern to initialize.
- 2. Hold down the [SHIFT] button and press the [10] button to display the dialog box.



3. Press the [ENTER] button.

Creating a Tone

How Parts 1–4 Are Structured (P.24)

Oscillator Model (P.25)

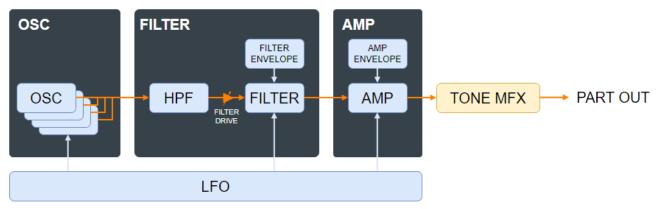
Configuring a Tone(P.37)

Using the Modulation Matrix(P.39)

Configuring the LFO(P.42)

Configuring the Tone EQ(P.43)

How Parts 1–4 Are Structured



* The content of the OSC block depends on the oscillator model that's used.



Oscillator Model

| Oscillator model | Explanation | | |
|------------------|---|--|--|
| SH-4d | A virtual analog model with four oscillators, featuring selectable waveforms that can be mixed. | | |
| SH-3D | A virtual analog model with three oscillators and a secondary LFO. | | |
| SYNC | Two virtual analog oscillators with the oscillator sync function, along with a pitch envelope. | | |
| SH-101 | An oscillator that recreates the famed SH-101 vintage mono synth. | | |
| JUNO-106 | An oscillator that recreates the widely used JUNO-106 vintage poly synth. | | |
| Cross FM | An oscillator that recreates a two-operator FM synth. | | |
| RING | A model that features two oscillators and a ring modulator. | | |
| WAVETABLE | A wavetable oscillator that lets you modulate the wave position. | | |
| CHORD | A chord oscillator that lets you freely control the chord shape. | | |
| DRAWING | An oscillator that lets you instantly play the waveforms you draw on the screen. | | |
| PCM | A PCM oscillator that lets you mix and play four waveforms. | | |

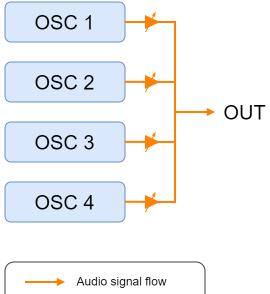
MEMO

For some oscillator models, you can press the OSC section [1]–[4] buttons while holding down the [SHIFT] button to show the OSC SETTINGS screen.

This lets you configure the parameters that aren't assigned to a controller.

SH-4d

OSC MODEL SH-4d







Turn the [1] knob or press the [OSC 1]-[OSC 4] buttons to select an oscillator, and use the [2] knob to select the oscillator waveform.

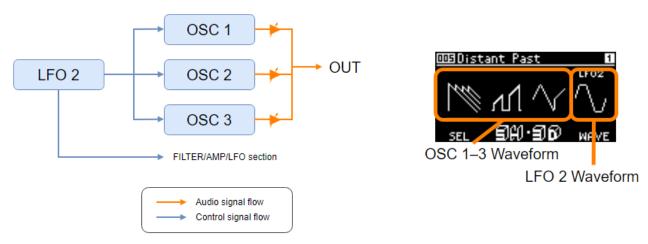
Use the [OSC 1]–[OSC 4] sliders to set the volume for each oscillator.

| Parameter | Controllers | Value | Explanation |
|---------------------|------------------|-------------------------|---------------|
| Osc 1–4 Waveform | [2] knob (on the | This sets the waveform. | |
| | top screen only) | SAW | Sawtooth wave |
| | | SQR | Square wave |
| | | TRI | Triangle wave |
| | | SINE | Sine wave |

| Parameter | Controllers | Value | Explanation |
|--------------------|----------------|---|---|
| | | RAMP | Ramp wave |
| | | JUNO | Modulated sawtooth wave |
| | | TRI2 | Triangle wave variation |
| | | TRI3 | Triangle wave variation |
| | | SINE2 | Sine wave variation |
| | | SSAW | SuperSAW |
| | | NOISE | White noise |
| Osc 1-4 | PITCH | -24-+24 | Specifies the pitch in semitone steps |
| Coarse Tune | | | (maximum ±2 octaves). |
| Osc 1–4 Fine | SHIFT+PITCH | -50-+50 | Specifies the pitch in cents (maximum |
| Tune | | | ±50 cents). |
| | TIMBRE | 0–63 | Sets how much the LFO is applied (depth) |
| Osc 1-4 | | | to the PW (pulse width). The pulse width |
| PWM Depth | | | is modulated according to the LFO |
| | | | settings. |
| | SHIFT+TIMBRE | 0–63 | This effect changes the duty ratio of the |
| | | | pulse width to alter the waveform. |
| Osc 1-4 | | | You can use this effect with other |
| Pulse Width | | | waveforms besides SQR (square wave). |
| r dise width | | | * A value of zero results in a 50:50% |
| | | | duty ratio. |
| | | | duty ratio. |
| Osc 1 Level | [OSC 1] slider | 0–127 | Sets the volume of OSC 1. |
| Osc 2 Level | [OSC 2] slider | 0–127 | Sets the volume of OSC 2. |
| Osc 3 Level | [OSC 3] slider | 0–127 | Sets the volume of OSC 3. |
| Osc 4 Level | [OSC 4] slider | 0–127 | Sets the volume of OSC 4. |
| | - | 0–63 | Distorts the waveform and adds a |
| Osc 1–4 Fat | | | frequency component one octave lower |
| | | | than the original waveform. |
| | - | OFF, SYNC | Implements the oscillator sync function |
| Osc 1-2, 3-4 | | | that is provided by an analog synthesizer. |
| Sync | | | The OSC 1 or 2 is reset at intervals of the |
| | | | OSC 3 or 4's pitch cycle. |
| | - | 0–127 | Adjusts how much the SuperSAW is |
| Osc 1-4 | | | detuned. Larger values create a greater |
| SSaw | | | detune effect. |
| Detune | | | * This is enabled only when "SSAW" is |
| Detaile | | | selected for the waveform. |
| | | | selected for the wavelonn. |
| | | RED, ORANGE, YELLOW, GREEN, BLUE, PURPLE, | Sets the oscillator section LED color for |
| Osc 1-4 LED | | PINK, WHITE, SKYBLUE, P.YELLOW, P.BLUE, | each oscillator. |
| Color | | P.PINK, L.RED, L.ORANGE, L.YELLOW, L.GREEN, | |
| | | P.GREEN, L.SKYBLUE, L.BLUE, L.PURPLE | |

SH-3D

OSC MODEL SH-3D



Turn the [1] knob or press the [1]–[4] buttons in the OSC section to select an oscillator or LFO 2, and use the [2] knob to select the oscillator or LFO 2 waveform.

Use the [1]–[3] sliders to set the volume for each oscillator. Set the speed of the LFO 2 cycle with the [4] slider.

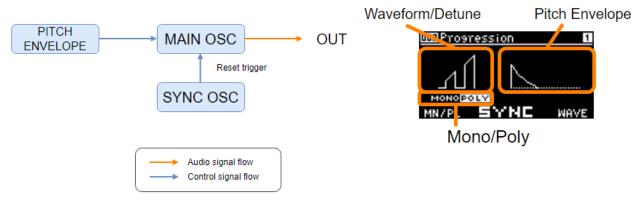
| Parameter | Controllers | Value | Explanation |
|--------------------|------------------|--------------------------|---------------------------------------|
| OSC 1-3 | - | | - |
| Osc 1-3 | [2] knob (on the | This sets the waveform. | |
| Waveform | top screen only) | SAW | Sawtooth wave |
| | | SQR | Square wave |
| | | TRI | Triangle wave |
| | | SINE | Sine wave |
| | | RAMP | Ramp wave |
| | | JUNO | Modulated sawtooth wave |
| | | TRI2 | Triangle wave variation |
| | | TRI3 | Triangle wave variation |
| | | SINE2 | Sine wave variation |
| | | SSAW | SuperSAW |
| | | NOISE | White noise |
| LFO 2 | [2] knob (on the | Sets the LFO 2 waveform. | |
| Waveform | top screen only) | SINE | Sine wave |
| | | TRI | Triangle wave |
| | | SAW-UP | Sawtooth wave |
| | | SAW-DW | Sawtooth wave (negative polarity) |
| | | SQR | Square wave |
| | | RND | Random wave |
| | | TRP | Trapezoidal wave |
| | | S&H | Sample & hold wave (randomly |
| | | | changes the output value once per |
| | | | cycle). |
| | | CHS | Chaos wave |
| | | VSINE | Deformed sine wave (randomly |
| | | | changes the amplitude of the sine |
| | | | wave once per cycle). |
| Osc 1-3 | PITCH | -24-+24 | Specifies the pitch in semitone steps |
| Coarse Tune | | | (maximum ±2 octaves). |
| Osc 1–3 Fine | SHIFT+PITCH | -50-+50 | Specifies the pitch in cents (maximum |
| Tune | | | ±50 cents). |
| Osc 1-3 | TIMBRE | 0–63 | Sets how much the LFO is applied |
| PWM Depth | | | (depth) to the PW (pulse width). |
| | | | The pulse width is modulated |
| | | | according to the LFO settings. |

| Parameter | Controllers | Value | Explanation |
|-------------------------|----------------------------------|--|---|
| Osc 1–3 | SHIFT+TIMBRE | 0–63 | This effect changes the duty ratio of |
| Pulse Width | | | the pulse width to alter the waveform. |
| | | | You can use this effect with other |
| | | | waveforms besides SQR (square wave). |
| | | | * A value of zero results in a |
| | | | 50:50% duty ratio. |
| | 1000 11 11 1 | | <u> </u> |
| Osc 1 Level | [OSC 1] slider | 0-127 | Sets the volume of OSC 1. |
| Osc 2 Level | [OSC 2] slider [OSC 3] slider | 0–127 0–127 | Sets the volume of OSC 2. Sets the volume of OSC 3. |
| Osc 3 Level Osc 1–3 Fat | – | 0-63 | Distorts the waveform and adds a |
| OSC 1-3 Fat | _ | 0-03 | frequency component one octave |
| | | | lower than the original waveform. |
| Osc 1-2 Sync | - | OFF, ON | Implements the oscillator sync |
| | | | function that is provided by an analog |
| | | | synthesizer. |
| | | | The OSC 1 or 2 is reset at intervals of |
| Osc 1-3 | | 0–127 | the OSC 3 or 4's pitch cycle. Adjusts how much the SuperSAW is |
| SSaw Detune | _ | 0-127 | detuned. |
| July Detaile | | | Larger values create a greater detune |
| | | | effect. |
| | | | * Th:-: |
| | | | * This is enabled only when "SSAW" is selected for the |
| | | | waveform. |
| | | | |
| Osc 1–3 LED | _ | RED, ORANGE, YELLOW, GREEN, BLUE, PURPLE, | Sets the oscillator section LED color for |
| Color | | PINK, WHITE, SKYBLUE, P.YELLOW, P.BLUE, P.PINK, | each oscillator. |
| | | L.RED, L.ORANGE, L.YELLOW, L.GREEN, P.GREEN, L.SKYBLUE, L.BLUE, L.PURPLE | |
| LFO 2 | | L.SKTDEGE, E.DEGE, E.I. OTTI EE | |
| LFO 2 Rate | [OSC 4] slider | 0–1023 or 1/64T, 1/64, 1/32T, 1/32, 1/16T, 1/32., | Sets the speed of the LFO 2 cycle. |
| Note/Rate | | 1/16, 1/8T, 1/16., 1/8, 1/4T, 1/8., 1/4, 1/2T, 1/4., 1/2, | The LFO 2 cycle (rate) is set as a note |
| | | 1T, 1/2., 1, 2T, 1., 2, 4 | length when the LFO2 Rate Sync |
| | | | setting is "ON". |
| LFO 2 Pitch | PITCH (when LFO 2 is selected) | 0–100 | Specifies how deeply the LFO 2 will |
| Depth LFO 2 Fade | TIMBRE (when LFO | 0.1022 | affect pitch. Sets how long it takes for LFO 2 to |
| LFO 2 rade | 2 is selected) | 0-1025 | reach maximum amplitude. |
| LFO 2 Type | - | Sets the LFO 2 waveform. | reacti maximum ampireace. |
| | | SINE | Sine wave |
| | | TRI | Triangle wave |
| | | SAW-UP | Sawtooth wave |
| | | SAW-DW | Sawtooth wave (negative polarity) |
| | | SQR | Square wave Random wave |
| | | RND TRP | Trapezoidal wave |
| | | S&H | Sample & hold wave (randomly |
| | | | changes the output value once per |
| | | | cycle). |
| | | CHS | Chaos wave |
| | | VSINE | Deformed sine wave (randomly |
| | | | changes the amplitude of the sine wave once per cycle). |
| LFO 2 Rate | _ | OFF, ON | Turn this ON to sync the LFO 2 cycle |
| Sync | | 2, 3 | with the tempo. |
| LFO 2 Key | - | OFF, ON | Specifies whether the LFO 2 cycle will |
| Trig | | | be synchronized to begin when the |
| _ | | | key is pressed (ON) or not (OFF). |
| LFO 2 Flt | _ | 0–100 | Specifies how deeply the LFO will |
| Depth | | 0.400 | affect the cutoff frequency. |
| LFO 2 Amp | - | 0–100 | Sets how much LFO 2 affects the |
| Depth | | | volume. |

| Parameter | Controllers | Value | Explanation | | |
|-------------|-------------|--|-----------------------------------|--|--|
| LFO 2 Pan | - | -63-+63 | Specifies how deeply the LFO will | | |
| Depth | | | affect the pan. | | |
| LFO 2 Phase | _ | Sets the LFO 2 start phase value when Key Trigger is "ON". | | | |
| Pos | | 0 1 cycle | | | |
| | | 1 1/4 cycle | | | |
| | | 2 1/2 cycle | | | |
| | | 3 | 3/4 cycle | | |

SYNC

OSC MODEL SYNC

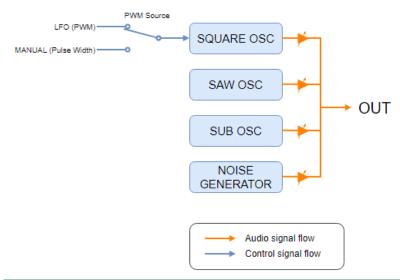


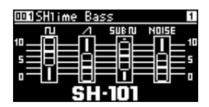
Use the [2] knob to set the waveform.

| Parameter | Controllers | Value | Explanation |
|-------------|--------------------------------|---------------|---|
| Coarse | PITCH | -24-+24 | Specifies the pitch in semitone steps (maximum ±2 octaves). |
| Tune | CLUET DITCLE | | |
| Fine Tune | SHIFT+PITCH | -50-+50 | Specifies the pitch in cents (maximum ±50 cents). |
| PWM Depth | TIMBRE | 0–63 | Sets how much the LFO is applied (depth) to the PW (pulse width). The pulse width is modulated according to the LFO settings. |
| Pulse Width | SHIFT+TIMBRE | 0–63 | This effect changes the duty ratio of the pulse width to alter the waveform. You can use this effect with other waveforms besides SQR (square wave). * A value of zero results in a 50:50% duty ratio. |
| Detune | [OSC 1] slider | 0-48 | Sets the pitch of the synchronized oscillator in semitones. |
| PEnv Attack | [OSC 2] slider | 0-1023 | Sets the attack time of the pitch envelope. |
| PEnv Decay | [OSC 3] slider | 0-1023 | Sets the decay time of the pitch envelope. |
| PEnv Depth | [OSC 4] slider | 0–100 | Sets the intensity of the pitch envelope. Larger values produce a greater change with the pitch envelope. |
| Mono/Poly | [OSC 1] and [OSC 2] buttons | MONO, POLY | Sets whether the tones play in polyphonic (POLY) or monophonic (MONO) mode. |
| Sync | [OSC 4] button | OFF, ON | Turns oscillator sync on/off. |

SH-101

OSC MODEL SH-101

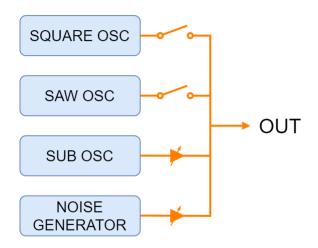


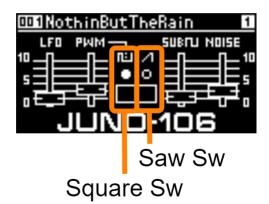


| Parameter | Controllers | Value | Explanation |
|--------------------|---|---------------------------------|--|
| Coarse Tune | PITCH | -24-+24 | Specifies the pitch in semitone steps (maximum ±2 octaves). |
| Fine Tune | SHIFT+PITCH | -50-+50 | Specifies the pitch in cents (maximum ±50 cents). |
| Pulse Width | TIMBRE (when "PWM Source" is set to "MANUAL") | 0–63 | Changes the duty ratio of the pulse width to alter the waveform. |
| | | | * A value of zero results in a 50:50% duty ratio. |
| PWM Depth | TIMBRE (when "PWM Source" is set to "LFO") | 0–63 | Sets how much the LFO is applied (depth) to the PW (pulse width) of the square wave. The pulse width is modulated according to the LFO settings. |
| Square Level | [OSC 1] slider | 0–127 | Sets the square wave volume. |
| Saw Level | [OSC 2] slider | 0–127 | Sets the sawtooth wave volume. |
| Sub Osc | [OSC 3] slider | 0–127 | Sets the sub-oscillator volume. |
| Level | | | |
| Noise Level | [OSC 4] slider | 0–127 | Sets the noise generator volume. |
| PWM Source | [OSC 1] button | LFO, MANUAL | Switches the function of the [TIMBRE] knob between pulse width and PWM depth. |
| Sub Osc Wave | [OSC 3] button | 1OCT SQR, 2OCT SQR, 2OCT PLS | Switches between sub-oscillator pitches and waveforms. |

JUNO-106

OSC MODEL JUNO-106



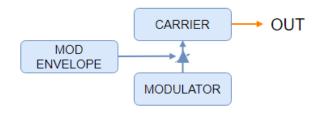


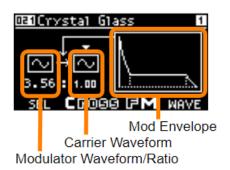


| Parameter | Controllers | Value | Explanation |
|--------------------|-------------------|-------------|---|
| Coarse Tune | PITCH | -24– +24 | Specifies the pitch in semitone steps (maximum ± 2 octaves). |
| Fine Tune | SHIFT+PITCH | -50– +50 | Specifies the pitch in cents (maximum ±50 cents). |
| | TIMBRE | 0–63 | Changes the duty ratio of the pulse width to alter the waveform. |
| Pulse Width | | | * A value of zero results in a 50:50% duty ratio. |
| LFO Pitch Depth | [OSC 1] slider | 0–100 | Specifies how deeply the LFO will affect pitch. |
| PWM Depth | [OSC 2] slider | 0–63 | Sets how much the LFO is applied (depth) to the PW (pulse width) of the square wave. The pulse width is modulated according to the LFO settings. |
| Sub Osc Level | [OSC 3] slider | 0-127 | Sets the sub-oscillator volume. |
| Noise Level | [OSC 4] slider | 0-127 | Sets the noise generator volume. |
| Square Switch | [OSC 2] button | OFF, ON | Turns the square wave on/off. |
| Saw Switch | [OSC 3] button | OFF, ON | Turns the sawtooth wave on/off. |

Cross FM

OSC MODEL Cross FM



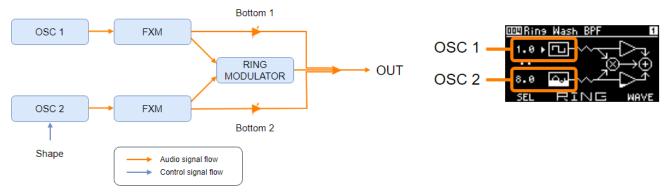




| Parameter | Controllers | Value | Explanation |
|----------------------------------|----------------------|------------|---|
| Carrier/Modulator | [2] knob (on the top | SINE, TRI, | This sets the waveform. |
| Waveform | screen only) | SQR, SAW | |
| Coarse Tune | PITCH | -24-+24 | Specifies the pitch in semitone steps (maximum ±2 octaves). |
| Fine Tune | SHIFT+PITCH | -50-+50 | Specifies the pitch in cents (maximum ±50 cents). |
| Ratio | TIMBRE | 1.0-16.0 | Sets the frequency ratio between the carrier and modulator. |
| Ratio Fine | SHIFT+TIMBRE | -50-+50 | Sets the frequency ratio between the carrier and modulator in smaller steps. |
| Mod Env Atk | [OSC 1] slider | 0-1023 | Sets the attack time of the modulation envelope. |
| Mod Env Dcy/Rel | [OSC 2] slider | 0–1023 | Sets the decay and release times of the modulation envelope. |
| Mod Env Sus | [OSC 3] slider | 0-511 | Sets the sustain level of the modulation envelope. |
| Mod Depth | [OSC 4] slider | 0–63 | Sets the intensity of the modulation envelope. Larger values produce a greater change with the modulation envelope. |
| Carrier/Modulator Pulse Width | - | 0–63 | This effect changes the duty ratio of the pulse width to alter the waveform. You can use this effect with other waveforms besides SQR (square wave). * A value of zero results in a 50:50% duty ratio. |
| Carrier/Modulator PWM Depth | - | 0-63 | Sets how much the LFO is applied (depth) to the PW (pulse width). The pulse width is modulated according to the LFO settings. |
| Carrier/Modulator Fat | - | 0–63 | Distorts the waveform and adds a frequency component one octave lower than the original waveform. |

RING

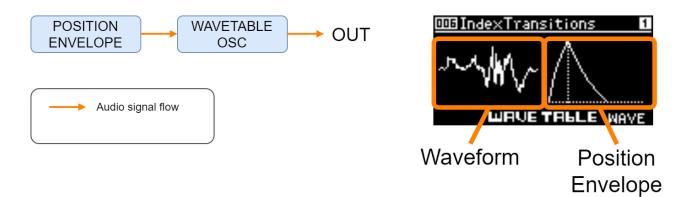
OSC MODEL RING



| Parameter | Controllers | Value | Explanation |
|----------------------|----------------------|------------|--|
| Osc 1-2 | [2] knob (on the top | SINE, TRI, | This sets the waveform. |
| Waveform | screen only) | SQR, SAW | |
| Coarse Tune | PITCH | -24-+24 | Specifies the pitch in semitone steps (maximum ±2 octaves). |
| Fine Tune | SHIFT+PITCH | -50-+50 | Specifies the pitch in cents (maximum ±50 cents). |
| Modulator | TIMBRE | -48-+48 | Specifies the pitch for oscillator 2 in semitone steps (maximum ±4 |
| Tune | | | octaves). |
| Mod Fine Tune | SHIFT+TIMBRE | -50-+50 | Specifies the pitch for oscillator 2 in cents (maximum ±50 cents). |
| Bottom 1 | [OSC 1] slider | 0–127 | Sets the loudness of oscillator 1's signal that does not pass through |
| DOCCOIII I | | | the ring modulator. |
| Shape | [OSC 2] slider | 0–63 | Distorts the waveform of oscillator 2, and adds a frequency |
| Shape | | | component one octave lower than the original waveform. |
| FXM | [OSC 3] slider | 0–16 | Specifies the depth of the modulation produced by FXM. |
| Bottom 2 | [OSC 4] slider | 0–127 | Sets the loudness of oscillator 2's signal that does not pass through |
| DOLLOIN 2 | | | the ring modulator. |
| | [OSC 3] button | 1–4 | Specifies how FXM will perform frequency modulation. |
| FXM Speed | | | Higher settings result in a grainier sound, while lower settings result in |
| | | | a more metallic sound. |

WAVETABLE

OSC MODEL WAVETABLE



| Parameter | Controllers | Value | Explanation |
|--------------------|-----------------------------------|-------------|--|
| Wave Number | [2] knob (on the top screen only) | 1–31 | Sets the wave number. |
| Coarse Tune | PITCH | -24– +24 | Specifies the pitch in semitone steps (maximum ±2 octaves). |
| Pos LFO Depth | TIMBRE | 0-63 | Sets how much the LFO is applied (depth) to the wave position. |
| Position | [OSC 1] slider | 0–127 | Sets the wave position on the selected wave number. |

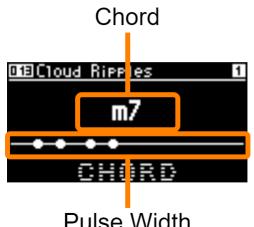
| Parameter | Controllers | Value | Explanation |
|---------------------|----------------|--------|--|
| Position Env Atk | [OSC 2] slider | 0–1023 | Sets the attack time for the envelope that's applied to the wave position. |
| Position Env Dcy | [OSC 3] slider | 0–1023 | Sets the decay time for the envelope that's applied to the wave position. |
| Position Env | [OSC 4] slider | 0–63 | Sets how much the envelope is applied (depth) to the wave |
| Depth | | | position. |

CHORD

OSC MODEL CHORD







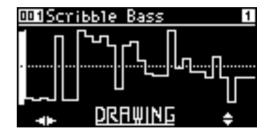
| Pu | lse | VV | IQ. | th |
|----|-----|----|-----|----|
| | | | | |

| Parameter | Controllers | Value | Explanation |
|----------------|----------------------------|--|--|
| Coarse Tune | PITCH | -24-+24 | Specifies the pitch in semitone steps (maximum ±2 octaves). |
| Fine Tune | SHIFT+PITCH | -50-+50 | Specifies the pitch in cents (maximum ± 50 cents). |
| Balance | TIMBRE | 0–255 | Sets the volume balance for the tones that make up the chord. |
| Chord | [OSC 1] slider | Major, 6th, 7th, Maj7, M7 (5), minor, m6, m7, mMaj7, dim、dim7, m7 (5), aug、aug7, sus2, sus4, 7sus4, 4ths, 5ths | Specifies the chord. |
| Voicing | [OSC 2] slider | 1–5 | Specifies the chord voicing. |
| Pulse Width | [OSC 3] slider | 0–63 | This effect changes the duty ratio of the pulse width to alter the waveform. You can use this effect with other waveforms besides SQR (square wave). * A value of zero results in a 50:50% duty ratio. |
| PWM Depth | [OSC 4] slider | 0–63 | Sets how much the LFO is applied (depth) to the PW (pulse width). The pulse width is modulated according to the LFO settings. |
| Waveform | [OSC 1]–[OSC 4] buttons | SINE, TRI, SQR, SAW | This sets the waveform. |
| Fat | - | 0-63 | Distorts the waveform and adds a frequency component one octave lower than the original waveform. |

DRAWING

OSC MODEL DRAWING







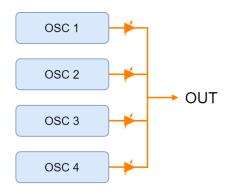
Use the [1] and [2] knobs to set the waveform shape.

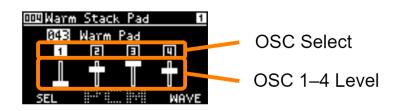
When you press the [ENTER] button, the cursor moves automatically, so you can draw the waveform by turning only the [2] knob.

| Parameter | Controllers | Value | Explanation |
|----------------|---------------------------------------|-------|---|
| Wave Step 1– | [2] knob, [^] [V] buttons (on the top | -72- | Sets the value for each step in the waveform data. |
| 32 | screen only) | +72 | |
| Coarse Tune | PITCH | -24– | Specifies the pitch in semitone steps (maximum ± 2 octaves). |
| Coarse rune | | +24 | |
| | TIMBRE | 0–127 | Sets how smoothly the steps are connected when playing back |
| Wave Edge | | | a waveform. |
| | | | Smaller values produce smoother transitions between steps. |
| Step 1–8 | [OSC 1] slider | -72- | Sets the values for steps 1–8 in the waveform data. |
| 3(eb 1-0 | | +72 | |
| Step 9–16 | [OSC 2] slider | -72- | Sets the values for steps 9–16 in the waveform data. |
| 3tep 9-10 | | +72 | |
| Stop 17 24 | [OSC 3] slider | -72- | Sets the values for steps 17–24 in the waveform data. |
| Step 17-24 | | +72 | |
| Cton 25, 22 | [OSC 4] slider | -72- | Sets the value for steps 25–32 in the waveform data. |
| Step 25-32 | | +72 | |
| Stop 1 O Clans | [OSC 1] button + [OSC 1] slider | -18– | Sets the slope of the straight lines that connect steps 1 through |
| Step 1–8 Slope | | +18 | 8 in the waveform data. |
| Step 9-16 | [OSC 2] button + [OSC 2] slider | -18– | Sets the slope of the straight lines that connect steps 9 through |
| Slope | | +18 | 16 in the waveform data. |
| Step 17-24 | [OSC 3] button + [OSC 3] slider | -18– | Sets the slope of the straight lines that connect steps 17 |
| Slope | | +18 | through 24 in the waveform data. |
| Step 25-32 | [OSC 4] button + [OSC 4] slider | -18– | Sets the slope of the straight lines that connect steps 25 |
| Slope | | +18 | through 32 in the waveform data. |

PCM

OSC MODEL PCM







| Parameter | Controllers | Value | Explanation |
|------------------------|--|---|---|
| OSC 1-4 Wave | [2] knob, [^] [V] buttons (on the top screen only) | 1–53 | Selects the PCM waveforms that play. |
| Osc 1–4 Coarse Tune | PITCH | -24-+24 | Specifies the pitch in semitone steps (maximum ±2 octaves). |
| Osc 1–4 Fine Tune | SHIFT+PITCH | -50-+50 | Specifies the pitch in cents (maximum ±50 cents). |
| Osc 1 Level | [OSC 1] slider | 0–127 | Sets the volume of OSC 1. |
| Osc 2 Level | [OSC 2] slider | 0–127 | Sets the volume of OSC 2. |
| Osc 3 Level | [OSC 3] slider | 0–127 | Sets the volume of OSC 3. |
| Osc 4 Level | [OSC 4] slider | 0–127 | Sets the volume of OSC 4. |
| Osc 1–4 LED Color | - | RED, ORANGE, YELLOW, GREEN, BLUE, PURPLE, PINK, WHITE, SKYBLUE, P.YELLOW, P.BLUE, P.PINK, L.RED, L.ORANGE, L.YELLOW, L.GREEN, P.GREEN, L.SKYBLUE, L.BLUE, L.PURPLE | Sets the oscillator section LED color for each oscillator. |

Configuring a Tone



- 1. Hold down the [SHIFT] button and press the [1]-[5] buttons to select a tone part.
- 2. Hold down the [SHIFT] button and press the [6] button.

The TONE screen appears.

| The TONE: | screen appe | ears. | |
|--------------|---|---|--|
| Item | Value | Explanation | |
| Level | 0–127 | Adjusts the overall volume for all tones. | |
| Octave | -3-+3 | Sets the pitch of the tone's sound in octaves (up to ± 3 octaves). | |
| Coarse Tune | -48-+48 | –+48 Specifies the pitch in semitone steps (maximum ±4 octaves). | |
| OSC 2 Coarse | -48-+48 | Sets the pitch of oscillator 2 in semitones (only when using the SYNC model). | |
| Tune | | | |
| Analog Feel | 0–127 Applies time-varying change to the pitch and volume of the tone that is producing sound, adding sense of variability. As you increase this value toward the maximum, the variability becomes greater, producing instability. | | |
| | Specifies v | whether the tone will play polyphonically (POLY) or monophonically (MONO). | |
| Mono Poly | MONO | Sound only the last-played key one at a time. | |
| | POLY | Two or more notes can be played simultaneously. | |
| Legato Sw | OFF, ON | This is enabled when "Mono Poly" is set to "MONO". With "Legato Sw" set to "ON", when you press the next key while still holding down the previous key | |
| | | (legato performance), the next note sounds without its attack portion. | |
| | OFF, ON | Specifies whether the portamento effect will be applied (ON) or not applied (OFF). | |
| Porta Sw | | * Portamento is an effect which smoothly changes the pitch from the first-played key to the next-played key. | |
| | | By applying portamento when the MONO/POLY parameter is "MONO," you can simulate slide performance techniques on a violin or similar instrument. | |
| | This sets t | he playing style for applying portamento. | |
| Porta Mode | NORMAL | Portamento is always applied. | |
| Porta Mode | LEGATO | Portamento is only applied when you play in legato style (playing one key and then playing the next while holding down the first one). | |
| Porta Time | 0-1023 | When portamento is used, this sets the speed taken for the pitch to change. | |
| Porta Time | | Higher settings cause the pitch change to take more time when gliding to the next note. | |
| | -100- | Set this when you want the volume of the tone to change depending on the force with which you | |
| Amp Velo | +100 | press keys on an external keyboard. | |
| Sense | | Set this to a positive (+) value to have the changes in volume increase the more forcefully the keys | |
| | | are played; to make the tone play more softly as you play harder, set this to a negative (-) value. | |

| Item | Value | Explanation | |
|----------------------|---------------|---|--|
| Cutoff Velo Sense | -100- +100 | Sets how much the cutoff frequency changes according to how hard you play the keys. Positive values make the cutoff frequency increase when you play the keys harder, and negative values make the cutoff frequency decrease. | |
| BendRange Up | 0–48 | Sets how much the pitch changes (in semitones) when the [PITCH +] button is pressed. For instance, a setting of "48" makes the pitch bend up four octaves when you press the [PITCH +] button. | |
| BendRange Dw | 0–48 | Sets how much the pitch changes (in semitones) when the [PITCH -] button is pressed. For instance, a setting of "48" makes the pitch bend down four octaves when you press the [PITCH -] button. | |
| Env Mode | ADR, ADSR | ADSR: Once the envelope passes its decay time, it stays at the sustain level until the note is released (note off). When the note is released, the envelope then goes to its release segment from the current position. ADR: Regardless of when you release the note (note off), the envelope goes to its release segment once the decay time has passed, and the envelope operates according to its set time. | |
| Catg | _ | Sets the category for the tone. | |

Using the Modulation Matrix

What is the Modulation Matrix?

The modulation matrix is a function that lets you freely "rewire" signals like the LFO and envelope generator, to create a variety of sounds that normally can't be achieved when connecting these components with the system default settings.

For the signal source, you can use internal signals like the LFO, as well as external MIDI signals like control change messages.

You can set one source and up to four output destinations for each slot, and you can set the modulation intensity (depth) for each destination.

Editing the Modulation Matrix



1. Hold down the [SHIFT] button and press the [7] button.

The MATRIX screen appears.



2. Press the [<] [>] buttons to select the slot to edit.

Depending on the model, you can use a maximum of two to four slots.

- 3. Press the [^][V] buttons to select the source/destination to edit.
- 4. Use the [1] knob to set the source/destination, and the [2] knob to set the modulation intensity for each destination.

MATRIX ASSIGN function

This function sets the source and destination according to how you operate the knobs.



- On the MATRIX screen, press the [A] [V] buttons to select the source/destination to edit.
- 2. Press the [ENTER] button.

The MATRIX ASSIGN screen appears.



- 3. Operate the controller (knob, slider or button) corresponding to the source/destination you want to set.
- This sets the source/destination according to the controller you operated.
- 4. Press the [ENTER] button to exit the MATRIX ASSIGN screen.

AUTO ASSIGN function

Upon turning the knobs for the source and destination, this function automatically assigns the source and destination to an available slot.



1. On the MATRIX screen, hold down the [SHIFT] button and press the [7] button again.

The AUTO ASSIGN screen appears.

2. Operate the controller (knob, slider or button) corresponding to the source you want to set.

The source is selected, and the screen changes.



3. Operate the controller (knob, slider or button) corresponding to the destination you want to set.

The destination is selected, and the slot is confirmed. The screen changes.



4. Once the display changes to the MATRIX screen, use the [2] knob to set the modulation intensity.



If no slots are available, the message "No empty slot" appears, and the display automatically switches to the MATRIX screen. Try changing the settings of one of the slots that has already been set.

Configuring the LFO



1. Hold down the [SHIFT] button and press the [8] button.

The LFO screen appears.



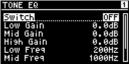
| Item | Value | Value Explanation | |
|-----------------------|------------|--|--|
| Rate Sync | OFF, ON | Turn this ON to sync the LFO cycle with the tempo. | |
| Key Trigger | OFF, ON | OFF, ON Specifies whether the LFO cycle will be synchronized to begin when the key is pressed (ON) or not (OFF). | |
| LFO Pan | -63- | Specifies how deeply the LFO will affect the pan. | |
| Depth | +63 | | |
| | Sets the I | LFO start phase value when Key Trigger is "ON". | |
| | 0 | 1 cycle | |
| Phase Position | 1 | 1/4 cycle | |
| | 2 | 1/2 cycle | |
| | 3 | 3/4 cycle | |

Configuring the Tone EQ



1. Hold down the [SHIFT] button and press the [9] button.

The TONE EQ screen appears.



| Item | Value | Explanation |
|------------------|------------------|---|
| Switch | OFF, ON | Turns the equalizer on/off. |
| | | |
| Low Gain | -24.0-+24.0 [dB] | Adjusts the amount of boost/cut of the low frequency range. |
| Mid Gain | -24.0-+24.0 [dB] | Adjusts the amount of boost/cut of the mid-frequency range. |
| High Gain | -24.0-+24.0 [dB] | Adjusts the amount of boost/cut of the high frequency range. |
| Low Freq | 20-16000 [Hz] | Sets the center frequency of the low range. |
| Mid Freq | 20-16000 [Hz] | Sets the center frequency of the mid range. |
| High Freq | 20-16000 [Hz] | Sets the center frequency of the high range. |
| Mid Q | 0.5-16.0 | Sets the bandwidth of the mid-frequency range. Higher values make the bandwidth narrower. |

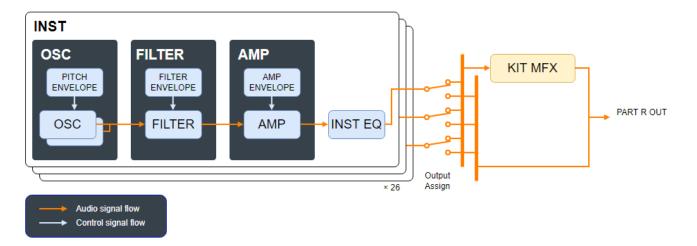
Creating a Rhythm Kit

How Part R is Structured (P.44)

Creating a Rhythm Instrument (P.45)

Configuring a Rhythm Kit/Instrument (P.48)

How Part R is Structured



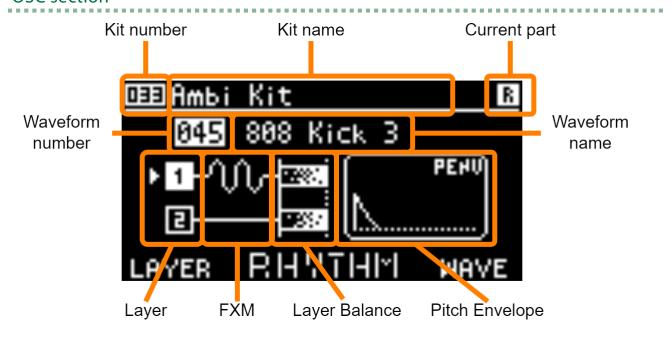
Creating a Rhythm Instrument



- 1. Hold down the [SHIFT] button and press the [5] button to set part R as the current part.
- 2. Press a keyboard button to select the rhythm instrument you want to set.

The settings for the selected instrument are shown on the top screen, and you can configure the parameters of the instrument that you selected using the panel knobs.

OSC section





- Use the [1] knob, [A] [V] or [OSC 1] [OSC 2] buttons to select the layer for which you want to choose a
 waveform.
- 2. Use the [2] knob (only if the top screen is shown) or the [MODEL] knob to select a waveform.

Use the [2] knob, [PITCH] knob, [OSC 1] slider, and [OSC 4] button to set the parameters of the layer you selected in step 1.

| Parameter | Controller | Value | Explanation |
|------------------|-------------------------------------|---------|---|
| Layer 1/2 | [2] knob (only if the top screen is | - | Selects the waveform that's played for each layer. |
| Waveform | shown), [MODEL] knob | | |
| Layer 1/2 Coarse | PITCH | -48-+48 | Specifies the pitch in semitone steps (maximum ±4 |
| Tune | | | octaves) for each layer. |
| Layer 1/2 Fine | SHIFT+PITCH | -50-+50 | Specifies the pitch in cents (maximum ±50 cents) for each |
| Tune | | | layer. |
| Lavor Palanca | TIMBRE | 127:0- | Specifies the balance in volume between two layers. |
| Layer Balance | | 0:127 | When this is set to 127:0, only layer 1 sounds. |
| Layer 1/2 FXM | [OSC 1] slider | 0–16 | Specifies the depth of the modulation produced by FXM. |
| Depth | | | |
| PEnv Attack | [OSC 2] slider | 0-255 | Sets the attack time of the pitch envelope. |
| PEnv Decay | [OSC 3] slider | 0-255 | Sets the decay time of the pitch envelope. |
| | [OSC 4] slider | 0-+100 | Sets the intensity of the pitch envelope. |
| PEnv Depth | | | Larger values produce a greater change with the pitch |
| | | | envelope. |
| Layer 1/2 FXM | [OSC 4] button | 1–4 | Specifies how FXM will perform frequency modulation. |
| Color | | | Higher settings result in a grainier sound, while lower |
| COIOI | | | settings result in a more metallic sound. |

FILTER/AMP/LFO section

You can adjust the following parameters to process the waveform for each rhythm instrument.

| Section | Controller | Value | Explanation |
|---------|------------|-----------|---|
| | TYPE | Select th | ne filter type. |
| | | LPF | A low-pass filter. This cuts off frequencies above the cutoff frequency. |
| | | LFF | Cutting off the high frequencies makes the sound more mellow. |
| | | BPF | A band-pass filter. This cuts off frequencies except for those around the cutoff frequency. |
| FILTER | | HPF | A high-pass filter. This cuts off frequencies below the cutoff frequency. |
| FILIEN | CUTOFF | 0-1023 | Sets the cutoff frequency of the filter. |
| | RES | 0-1023 | Emphasizes the frequencies around the filter's cutoff frequency. |
| | KES | | Larger values produce greater emphasis, creating a unique synthesizer-like sound. |
| | FLT ENV | 0-255 | Sets the attack time of the filter envelope. |
| | ATTACK | | |

| Section | Controller | Value | Explanation |
|---------|---------------|--------|--|
| | FLT ENV DECAY | 0-255 | Sets the decay time of the filter envelope. |
| | FLT ENV | 0-1023 | Sets the sustain level of the filter envelope. |
| | SUSTAIN | | |
| | FLT ENV | 0-1023 | Sets the release time of the filter envelope. |
| | RELEASE | | |
| | FLT ENV DEPTH | -63– | When the cutoff frequency is set to be controlled by the filter envelope, this adjusts how |
| | TETENV DEFITT | +63 | much the cutoff frequency changes. |
| | AMP ENV | 0-255 | Sets the attack time of the amp envelope. |
| | ATTACK | | |
| | AMP ENV | 0-255 | Sets the decay time of the amp envelope. |
| | DECAY | | |
| | AMP ENV | 0–1023 | Sets the sustain level of the amp envelope. |
| AMP | SUSTAIN | | |
| | AMP ENV | 0–1023 | Sets the release time of the amp envelope. |
| | RELEASE | | |
| | PAN | L63- | Sets the panning of the rhythm instrument's sound when using stereo output. |
| | IAN | 63R | |
| | LEVEL | 0–127 | Adjusts the volume of the rhythm instrument. |

^{*} The HPF, KEY-F, DRIVE and LFO section knobs can't be operated for part R.

Configuring a Rhythm Kit/Instrument



- 1. Hold down the [SHIFT] button and press the [5] button to set part R as the current part.
- 2. Press a keyboard button to select a rhythm instrument you want to edit.
- 3. Hold down the [SHIFT] button and press the [6] button.

The RHYTHM KIT EDIT screen appears.

MEMO

Kit Level is a setting for the entire kit, whereas the other parameters are settings for each rhythm instrument.

| Parameter | Value | Explanation | | |
|-------------------|---|---|--|--|
| Kit Level | 0–127 | Adjusts the volume of the entire rhythm kit. | | |
| INST SETTING | GS | | | |
| Voice | Sets how sounds are played when you press the same key a number of times. | | | |
| | SINGLE | In this mode, when you repeatedly play the same note, the sound from the same note you just | | |
| | | played is muted (stops) and retriggered. | | |
| | MULTI | In this mode, the sound plays normally each time you repeatedly play the same note, and you can | | |
| | | trigger that sound for a number of times up to the maximum polyphony of this unit. | | |
| Mute Group | OFF, 1- | Sets certain keys within the same group that should not play simultaneously. | | |
| | 31 | For instance, this is useful when you want the open hi-hat and closed hi-hat to play, but not at the | | |
| | | same time. | | |
| | | Keys that don't belong to any such group should be set to "OFF". | | |
| Env Mode | ADR, | ADSR: once the envelope passes its decay time, it stays at the sustain level until the note is | | |
| | ADSR | released (note off). When the note is released (note off), the envelope then goes to its release | | |
| | | segment from the current value. | | |
| | | ADR: the envelope skips to its release segment once the decay time has passed, and the envelope operates according to its set time, regardless of when you release the note (note off). | | |
| Layer 1 | -18-+12 | Sets the gain (amplitude) of the waveform. The value changes in units of 6 dB (decibels). An | | |
| Gain | [dB] | increase of 6 dB means twice the amount of gain. | | |
| Layer 2 | | | | |
| Gain | | | | |
| Output | DRY, | This sets whether each instrument is output to the part MFX (MFX), or is sent to the part output | | |
| Assign | MFX | mix without going through the part MFX (DRY). | | |

Using the Arpeggiator



- 1. Press the [ARPEGGIO] button to turn the Arpeggiator on.
- 2. Play more than one key on the keyboard at the same time.

When you press the [HOLD] button and turn the hold function on, the arpeggiator keeps playing even if you take your fingers off the keys.

Configuring the Arpeggio



1. Long-press the [ARPEGGIO] button, or hold down the [SHIFT] button and press the [ARPEGGIO] button.

The ARPEGGIO settings menu appears.

 Parameter
 Value
 Explanation

 Sets the order in which notes are played by the arpeggio when you play a chord.

| Parameter | Value | Explanation |
|-----------|---------------|--|
| | UP | The notes are played from the lowest key you played to the highest. |
| | DOWN | The notes are played from the highest key you played to the lowest. |
| Mode | UP&DOWN | The notes are played from low to high, and then from high to low. |
| wode | RANDOM | The notes are played in random order. |
| | NOTE | The notes are played in the order in which you play them. |
| | ORDER | |
| | Sets the leng | yth of one note for each step that the arpeggio plays. |
| | 1/4 | Quarter note |
| | 1/8 | Eighth note |
| Rate | 1/8T | Eighth-note triplet |
| | 1/16 | Sixteenth note |
| | 1/16T | Sixteenth-note triplet |
| | 1/32 | Thirty-second note |
| | -3-+3 | Specifies the range of octaves in which the arpeggio is sounded. |
| Oct Range | | You can specify whether the arpeggio is sounded in the octave(s) above (+) or below (-) the notes |
| | | you play. |
| Transpose | -36-+36 | Shifts the arpeggio notes in semitone steps. |
| | 0–100 [%] | Specifies the duration that the notes of the arpeggio pattern are sounded, as a proportion of the note |
| Gate | | length. |
| Length | | You can set this to make the arpeggiated notes sound briefly for a staccato feel, or at their full |
| | | duration for a tenuto feel. |
| | -50-+50 | Creates a shuffle rhythm by varying the timing at which the upbeat notes play. |
| Shuffle | | When this setting is "0", notes are sounded at equal spacing. Increasing the value adds a shuffle feel |
| | | like a dotted-note rhythm. |
| | REAL, 1–127 | |
| Velocity | | To change the velocity (how hard the notes are played) for the arpeggio notes according to how hard |
| | | you play the notes input from the external keyboard, use the "REAL" setting. |
| | | To make the arpeggio notes play at a fixed velocity, set this to a value from 1 to 127. |

Creating a Pattern (Step Sequencer)

What is the Step Sequencer?

With the step sequencer, you can input notes for each step and then play them back in a loop.

You can change the number of steps within a range of 1–64 for each part.

Up to 128 patterns can be stored.

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Selecting and Playing a Pattern



1. Press the [PATTERN] button to enter pattern mode.

The [PATTERN] button lights up and the pattern name and number appears on the display.



2. Press the [1]–[16] buttons to select a pattern.

Hold down the [PAGE/TIE] button and press the [1]–[8] buttons to switch between banks. For details, refer to "Switching Between Patterns(P.17)".

3. Press the [START] button to play back the pattern.

The pattern toggles between playback and stop each time you press the button.

You can select the next pattern while a pattern is still playing.

The current pattern change either stops playing or end of the drum part.

While the pattern is playing back, hold down the [PATTERN] button and press the [START] button to make the pattern play back from the beginning.

Setting the Tempo and Shuffle



1. Hold down the [SHIFT] button and press the [11] button.

The PATTERN TEMPO screen appears.



| Parameter | Value | Value Explanation | |
|-------------------|--|-------------------|--|
| Tempo | 20.00– 300.00 | | |
| Shuffle Offset | -90–+90 Creates a shuffle rhythm by varying the timing at which the upbeat notes play. When this setting is "0", notes are sounded at equal spacing. Increasing the value adds a shuffle foliake a dotted-note rhythm. * The actual shuffle amount for the respective part equals to the Shuffle value set in PATTERN SETTINGS plus this value. | | |

On the PATTERN screen, you can also turn the [1] knob to edit the pattern's tempo.

Editing the Range of Steps to View/Edit (PAGE)



1. Press the [PAGE/TIE] button.

Use the [1]–[16] buttons to advance the range of steps to show or edit, in 16-step increments.

MEMO

- Turn the [1] knob while holding down the [PAGE/TIE] button to edit the number of steps (step length) of the current part.
- Hold down the [PAGE/TIE] button and turn the [2] knob to change the play mode. For details, refer to "Configuring the Patterns(P.66)".

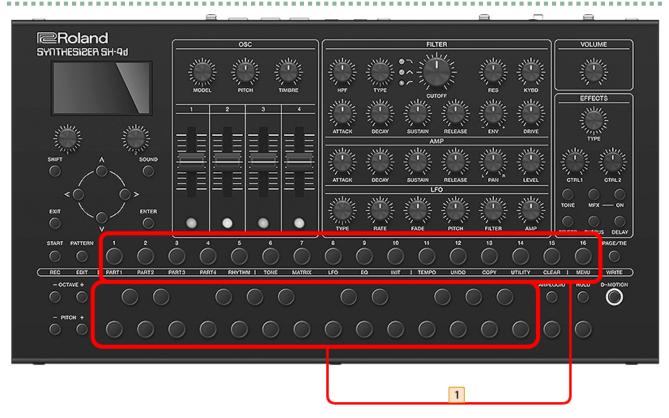
Inputting and Editing Notes

You can use the [1]–[16] buttons to input notes for each step.



When editing with the step sequencer, make sure that the unit is not in the pattern mode (the [PATTERN] button is lit.) If the [PATTERN] button is lit, press the [EXIT] button several times to exit the pattern mode and return to the top screen.

Tone Part



1. Hold down one of the [1]–[16] buttons and press a keyboard button.

You can also hold down a keyboard button and press the step [1]–[16] buttons corresponding to the note you want to input.

Rhythm part (TR-REC)



- 1. Press a keyboard button to select the instrument you want to input.
- 2. Press the [1]-[16] buttons corresponding to the notes you want to input for the selected instrument.

MEMO

- You can input up to eight notes per step. When you input more than eight notes, the previous notes you inputted are deleted, with the oldest note deleted first.
- When "Remote Kbd" is "ON", you can use an external device to input notes via MIDI signals instead of using the keyboard buttons.

For details, refer to "System Settings (SYSTEM SETTINGS)(P.76)".

Inputting a Tie



1. Hold down one of the [1]–[16] buttons corresponding to where you want the tie to start, and press the [PAGE/TIE] button.

When you press the [PAGE/TIE] button more than once, a tie is input into the following steps.

Inputting a Pattern While the Steps Automatically Advance (Step Input)



1. Hold down the [1]–[16] buttons and press the [START] button to select the step where you want to start inputting.

The unit enters step input mode, and "Recording" appears on the display.



2. Input the notes using the keyboard buttons or an external keyboard.

The steps automatically advance each time you input a note. When you press the [PAGE/TIE] button, a tie is input to connect the current step (at the time you pressed the button) to the previous step.

3. To exit step input mode, press the [EXIT] button.

When you input the last step, step input mode automatically ends.

Recording Your Performance in Real Time (Real-time Input)



1. Hold down the [SHIFT] button and press the [START] button.

The unit enters real-time input mode, and "Recording" appears on the display.



2. Input the notes using the keyboard buttons or an external keyboard.

Your playing is recorded in real time.

3. Press the [EXIT] button to exit real-time input.

Inputting/Editing Velocity and Gate Length

For tone parts



Long-press the [1]-[16] buttons to bring up the STEP EDIT screen. While holding down the [1]-[16] buttons, press one of the [^] [^] buttons.

The STEP EDIT screen stays open.



MEMO

Without pressing the [A] [V] buttons, take your finger off the [1]–[16] buttons to close the STEP EDIT screen.

2. Press the $[\land]$ $[\lor]$ buttons to select the note whose velocity or gate length you wish to edit.

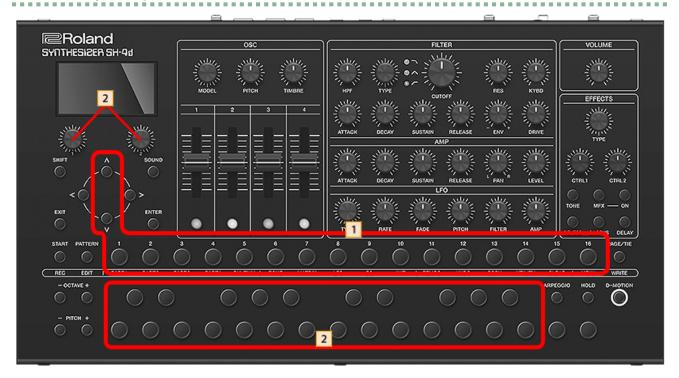
Turn the [1] knob to edit the velocity. Turn the [2] knob to edit the gate length.

MEMO

- When the gate length is set to maximum, the tie is connected to the note in the next step.
- The actual gate length when the pattern plays back equals the gate length set in the respective pattern plus the "Gate Length" value set on the PATTERN SETTINGS screen.

For details, refer to "Configuring the Patterns(P.66)".

For the rhythm part



1. Long-press the [1]–[16] buttons to bring up the STEP EDIT screen. While holding down the [1]–[16] buttons, press one of the [^] [^] buttons.

The STEP EDIT screen stays open.



MEMO

Without pressing the $[\land]$ $[\lor]$ buttons, take your finger off the [1]–[16] buttons to close the STEP EDIT screen.

2. Press the keyboard buttons to select the instrument whose velocity or gate length to edit.

Turn the [1] knob to edit the velocity.
Turn the [2] knob to edit the gate length.

MEMO

The actual gate length when the pattern plays back equals the gate length set in the respective pattern plus the "Gate Length" value set on the PATTERN SETTINGS screen.

For details, refer to "Configuring the Patterns(P.66)".

Inputting/Editing Probability and Sub Steps

For each step in a sequence, you can set the probability with which the step sounds, and the sounds that play continuously within that step (sub steps).



1. Long-press the [1]–[16] buttons to bring up the STEP EDIT screen. While holding down the [1]–[16] buttons, press one of the [^] [^] buttons.

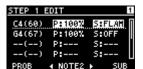
The STEP EDIT screen stays open.



MEMO

Without pressing the [A] [V] buttons, take your finger off the [1]–[16] buttons to close the STEP EDIT screen.

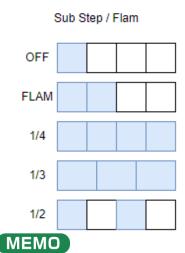
2. Press the [>] button to move to the NOTE 2 page.



Press the [A] [V] buttons to select the note whose probability or sub step you wish to edit.

Turn the [1] knob to edit the probability. To make the step always play, set the value to 100%; and to never play the step, set the value to 0%.

Edit the sub step using the [2] knob.



Hold down one of the [1]–[16] buttons in step 1 and press the [>] button to move to the NOTE 2 page.

Recording the Knob Motions

You can record and play back the motions of the knobs while the step sequencer plays back.



1. Hold down the [SHIFT] button and press the [START] button.

The unit enters real-time input mode, and "Recording" appears on the display.



2. Move the knobs while the sequencer plays back.

The knob positions are recorded in each step as you operate the knobs.

3. Press the [EXIT] button to exit real-time input.

This also stops the recording of the knob motions.

You can also record the knob position into each step by following the steps in "Inputting and Editing Notes (P.55)".



1. Hold down the respective [1]–[16] buttons while turning the knob of the selected step where you want to save the motion, and set the value.

The MOTION page of the STEP EDIT screen is shown, where you can check the knobs, CC numbers and values you've set. Press the [V] button while holding down the [1] –[16] buttons to make the screen stay open.



When you play back the step sequencer, the values for the knobs change according to the values recorded for each step.

MEMO

You can input up to four knob values per step. If you input more than four knob values, the previous knob values you inputted are deleted, with the oldest value deleted first.

MEMO

For control change signals from external devices connected to the MIDI IN connector or USB port, you can record the values corresponding to each step by using either of the above steps, as well as by using the knobs on this unit.

* Motions are not recorded for the following knobs.

[1], [2], [MODEL], [PITCH], [TIMBRE], [FILTER TYPE], [LFO TYPE], [EFFECTS TYPE], [CTRL1], [CTRL2]

Configuring the Patterns



1. Hold down the [SHIFT] button and press the [PATTERN] button.

The PATTERN SETTINGS screen appears.

- 2. Use the [1] knob or press the $[\land][\lor]$ buttons to select the item.
- 3. Use the [2] knob to select a value.
- 4. Press the [EXIT] button to exit the PATTERN SETTINGS screen.

| Item | Value | Explanation | | | |
|-----------------------|--|--|--|--|--|
| Part | - | | | | |
| Step Length | 1–64 | Sets the number of steps in the pattern. MEMO | | | |
| | | You can also set this by holding down the [PAGE/TIE] button and turning the [1] knob. | | | |
| Scale | 1/8, 1/16, 1/32, 1/4T, 1/8T, 1/16T | For details, refer to "Note(P.168)". | | | |
| Play Mode | Sets the order of steps for play MEMO You can also set this by holdi | rback. ng down the [PAGE/TIE] button and turning the [2] knob. | | | |
| | FWD | Plays forward from the first step. | | | |
| | REV | Plays backward from the last step. | | | |
| | FWD+REV | Plays forward from the first step, and plays backward after reaching the last step. | | | |
| | INV | Switches to playing (inverts) the even-numbered and odd-numbered steps. | | | |
| | RND | Plays steps randomly. | | | |
| Gate Length Offset | -128–127 | Sets the global gate length, which changes the relative gate length for each step. | | | |
| Shuffle | -90-0-+90 | Adjusts the timing at which the even-numbered steps (2, 4, 6) play. | | | |
| Smooth | This applies fluid changes to the control change signals (motions), for smooth changes to the sound. | | | | |
| | AUTO | The Smooth function is disabled only for the slider and envelope knobs. | | | |
| | OFF | The Smooth function is disabled for all knobs. | | | |
| | ON | The Smooth function is enabled for all knobs. | | | |
| Motion Sw | OFF, ON | Toggles the output for the control change signals (motion) on/off. | | | |
| Mute Sw | OFF, ON | Switches the part mute on/off. | | | |
| First Step Sw | OFF, ON | Turns the First Step setting on/off. | | | |
| First Step | From 1 to (value set in STEP LENGTH) | This specifies any step besides the first and last step to be played back as the first step. | | | |

| Item | Value | Explanation |
|----------------------|--------------------------------------|---|
| Last Step Sw | OFF, ON | Switches the last step settings on/off. |
| Last Step | From 1 to (value set in STEP LENGTH) | This specifies any step besides the first and last step to be played back as the last step. |
| Level | 0–127 | Sets the part level. |
| Pan | L64-63R | Sets the panning of each part's sound when using stereo output. |
| Pattern | | |
| Pattern Level | 0–127 | Sets the overall pattern volume. |
| Voice Reserve | | |
| Part 1 | 1–60 | Specifies how polyphony resources are allocated to each part. |
| Part 2 | | The track is given priority for the specified number of voices. |
| Part 3 | | V 71 1 6 1 1 106 1 10 11 11 |
| Part 4 | | * The number of voices used differs depending on the sound. |
| Part R | | |

MEMO

The effect send (level) for each instrument in part R is the value of the effect send on this screen multiplied by the value of the effect send for each instrument, which is set using the knob.

Pattern Utilities



1. Hold down the [SHIFT] button and press the [14] button.

The PATTERN UTILITY screen appears.

- Use the [1] or [2] knob or press the $[\land][\lor]$ buttons to select the item.
- 3. To execute the operation, press the [ENTER] button.

| Item | Explanation |
|---------------------------|---|
| | Duplicates the content of the step sequencer for the selected part, which doubles the number of |
| DUPLICATE STEPS (PART) | steps. |
| | * A part can contain up to 64 steps after its content is doubled. |
| | Duplicates the content of the step sequencer for all parts, which doubles the number of steps of each |
| DUDUICATE CTEDS (DTM) | part. |
| DUPLICATE STEPS (PTN) | * A part can contain up to 64 steps after its content is doubled. |
| | A part can contain up to 64 steps after its content is doubled. |
| CLEAR MOTION | Erases all recorded knob motions for the selected part. |
| RANDOMIZE STEPS | Randomly overwrites the step sequencer for the selected part. |
| INITIALIZE PATTERN | Initializes the selected pattern. |
| | · |

Copying and Pasting the Content of Patterns

You can copy and paste the data in a pattern to a different pattern, part or step.

Copying the Data



1. Hold down the [SHIFT] button and press the [13] button.

The COPY screen appears.



2. Press the [<] [>] buttons or the [1] knob to select what to copy (the copy source).

| Copy source | Explanation |
|-------------|--|
| PATTERN | Copies the entire contents of the pattern. |
| | The tone numbers that are loaded into each part of the pattern are also copied/pasted. |
| | MEMO |
| | The existing content of tones that are not saved are lost when you paste the new data. |
| PART | Copies the content of the current part from the pattern. |
| | Tone numbers are not copied/pasted. |
| STEP | Copies the content of one step from the step sequencer of the current part. |
| | Use the [2] knob or the [1]–[16] buttons to select what to copy/paste. |
| MULTI-STEP | Copies the content of multiple steps from the step sequencer of the current part. |

3. Press the [\(\Lambda\)] button to execute the copy operation.

When the source is MULTI-STEP, the SELECT STEPS screen appears.



Use the [1] knob to select the starting step and the [2] knob to select the ending step number, and press the [ENTER] button to execute the copy operation.

Pasting the Data



- 1. Follow the steps in "Selecting and Playing a Pattern(P.51)" to select the copy destination pattern.
- 2. Hold down the [SHIFT] button and press the [1]-[5] buttons to select the copy destination part.
- 3. Follow steps 1–2 in "Copying the Data" to select the copy source.
- 4. Press the [V] button to execute the paste operation.

When the copy source is MULTI-STEP, the SELECT STEPS screen appears.



Use the [1] knob or the [2] knob to select the starting step number, and press the [ENTER] button to execute the paste operation.

Using D-MOTION



1. Press the [D-MOTION] button.

The D-MOTION screen appears, and D-MOTION is turned on.



Turn the [1] [2] knobs to select the parameter that changes when this unit is tilted to the left and right (X-axis) or forward/backward (Y-axis).

| Value | Parameter |
|-------|--------------------|
| AFT | Channel aftertouch |
| MOD | Modulation (CC#01) |
| PIT | Pitch bend |

3. Tilt the unit forward/backward and to the left and right.

The selected parameter changes according to how you tilt this unit.

NOTE

When using this function, firmly grip both sides of this unit and be careful that the connected cables are not excessively bent.

MEMO

- With the modulation matrix, you can use D-MOTION to affect other parameters by setting the parameter (MOD or AFT) to which the D-MOTION effect is applied as its source, and by setting the other parameters as the destination. For details, refer to "Using the Modulation Matrix(P.39)".
- If the values drift horizontally or vertically even though you've placed the unit on a flat surface, press each of the [1] and [2] knobs once.
 - The Offset X and Offset Y values are set according to how this unit is tilted. For details, refer to "System Settings (SYSTEM SETTINGS)(P.76)".
- 4. To turn D-MOTION off, press the [D-MOTION] button again.



While the D-MOTION screen is open, you can press the [EXIT] button to exit the D-MOTION screen while still leaving D-MOTION on.

Saving a Tone/Pattern (WRITE MENU)

The edits that you make to a tone or pattern, or the sequencer data that you record are temporary.

They will be lost if you turn off the power or select another tone or pattern.

If you want to keep the data you've edited or recorded, you must save it to a tone or pattern.



1. Hold down the [SHIFT] button and press the [PAGE/TIE] button.

The WRITE MENU screen appears.

| Item | Explanation | |
|--------------|--|--|
| OVERWRITE | Overwrites the edited parts of the currently selected pattern and tone. | |
| OVERWALLE | If a preset tone is selected, you must select a user tone for the save destination. | |
| PATTERN&TONE | Saves the edited pattern and tone by specifying the save destination pattern/tone number. | |
| PATTERN | Saves only the currently selected pattern. MEMO When you select a pattern to save, the currently selected tone number for each part is reloaded, and your edits are discarded. | |
| PART1-4 TONE | Saves only the tones for each tone part. | |
| PARTR RYTM | Saves only the part R rhythm kit. | |
| KIT | | |

Saving a Tone

- * When you edit the settings of a tone, the icon appears on the top screen, and the EDITED icon appears on the WRITE MENU screen.
- 1. Hold down the [SHIFT] button and press the [PAGE/TIE] button.

The WRITE MENU screen appears.

2. Turn the [1] knob to select the part containing the tone you want to save, and press the [ENTER] button.



3. Turn the [1] knob to select the save-destination tone number, and then press the [ENTER] button.



4. Turn the [1] and [2] knobs to input the tone name, and press the [ENTER] button to confirm.



5. Press [ENTER] again on the dialog box screen.



This saves the tone.

Saving the Pattern

- * When you edit the settings of a pattern, the icon appears on the PATTERN screen, and the EDITED icon appears on the WRITE MENU screen.
- 1. Hold down the [SHIFT] button and press the [PAGE/TIE] button.

The WRITE MENU screen appears.

2. Turn the [1] knob to select "PATTERN", and then press the [ENTER] button.

If you select "PATTERN" and save, the tones assigned to that pattern are reset to the tones that you last saved.

3. Turn the [1] knob to select the save-destination pattern number, and then press the [ENTER] button.



4. Turn the [1] and [2] knobs to input the pattern name, and press the [ENTER] button to confirm.



5. Press [ENTER] again on the dialog box screen.



This saves the pattern.

Saving the Pattern and Tones

1. Hold down the [SHIFT] button and press the [PAGE/TIE] button.

The WRITE MENU screen appears.

2. Turn the [1] knob to select "PATTERN & TONE" or "OVERWRITE", and press the [ENTER] button.

If the tone to save is a user tone and you select "OVERWRITE", the tone name input is skipped and the tone is saved with the current tone number and name.

3. Turn the [1] knob to select the save destination number for the tone or pattern to save, and then press the [ENTER] button.

- 4. Turn the [1] and [2] knobs to input the name of the tone or pattern to save, and press the [ENTER] button to confirm.
- 5. Press [ENTER] again on the dialog box screen.



This saves the pattern.

Main Menu (MENU)



1. Hold down the [SHIFT] button and press the [16] button.

The MENU screen appears.

2. Turn the [1] and [2] knobs to select a menu item, and press the [ENTER] button.

| Item | Explanation |
|-----------------|--|
| SYSTEM SETTINGS | Configures the system settings. |
| SYSTEM EQ/COMP | Configures the equalizer and compressor settings for the system. |
| VISUAL ARPEGGIO | Opens the VISUAL ARPEGGIO menu. |
| FACTORY RESET | Performs a factory reset. |
| INFORMATION | Shows the version information for the system. |

System Settings (SYSTEM SETTINGS)

Here are the system settings that you can configure.

GENERAL

| Parameter | Value | Explanation | |
|--------------------|-------------|---|--|
| System Tune | 415.3- | Adjusts the overall tuning. | |
| | 466.2 | The value shown is the frequency of the A4 key (middle A). | |
| Sys Key Shift | -24-+24 | 4 Shifts the overall pitch range in semitone steps. | |
| USB In Lev | 0–127 | Adjusts the level of audio input from the USB port. | |
| USB Out Lev | 0–127 | Adjusts the level of audio output from the USB port. | |
| | OFF, ON | Sets whether to mix the sound of this unit with the audio input signal from the USB port and input | |
| USB In to | | the result to the pattern effect (ON), or to mix only the MAIN OUT/PHONES OUT signals from this | |
| MFX | | unit without the audio input signal from the USB port (OFF). | |
| IVII A | | * When this is ON, the USB input from this unit is looped back to the USB output, even when the | |
| | | pattern effect is off. Make sure before turning this ON that the signal is not looped within the device | |
| | | you've connected to this unit. | |
| | OFF, 30min, | Specifies whether the unit will turn off automatically after a certain time has elapsed. If you don't | |
| | 240min | want the unit to turn off automatically, choose "OFF" setting. | |
| Auto Off | | MEMO | |
| | | The Auto Off setting is disabled (the power does not turn off automatically) when the unit is | |
| | | connected via USB. | |

| Parameter | Value | Explanation |
|-----------|-----------|---|
| LCD | 1–10 | Adjusts the contrast of the display. |
| Contrast | | |
| Startup | 01-01-08- | Specifies the pattern that is selected at start-up. |
| Pattern | 16 | |
| OSC MODEL | OFF, ON | If this is "ON", a dialog box is displayed that confirms the change in oscillator modes when you turn |
| Lock | | the model knob. |

TEMPO/SYNC

| Parameter | Value | Explanation |
|--------------|-----------------------------|--|
| Tempo | 20.00-300.00 | Specifies the system tempo. |
| Tempo Src | PATTERN, SYSTEM | When you switch patterns, this setting specifies whether to use the system tempo (SYSTEM) or the tempo stored in the pattern (PATTERN). |
| Sync Mode | AUTO, INT, MIDI, USB | Sets which synchronization signal is used by this unit. MEMO If a plug is connected to the EXT CLK IN jack, this unit always operates in sync with the signals received from the EXT CLK IN jack, regardless of the Sync Mode setting on this unit. → "EXT CLK IN jack(P.11)" |
| Sync Out | OFF, MIDI, USB, MIDI/USB | Specifies the connector from which MIDI clock messages etc. are output. |

MIDI

| Parameter | Value | Explanation | |
|------------|-----------|--|--|
| | 1–16, OFF | Specifies the MIDI receive channel on which MIDI messages (program change and bank select) from | |
| Ctrl Ch | | an external MIDI device can be received to switch programs. | |
| | | If you don't want programs to be switched from a connected MIDI device, turn this "OFF". | |
| Part 1 Ch | 1–16 | Specifies the MIDI receive channel for part 1. | |
| Part 2 Ch | 1–16 | Specifies the MIDI receive channel for part 2. | |
| Part 3 Ch | 1–16 | Specifies the MIDI receive channel for part 3. | |
| Part 4 Ch | 1–16 | Specifies the MIDI receive channel for part 4. | |
| Part R Ch | 1–16 | Specifies the MIDI receiving channel for part R. | |
| C (: T) | OFF, ON | If this is ON, MIDI messages that are input from the MIDI IN connector are re-transmitted without | |
| Soft Thru | | change from the MIDI OUT connector. | |
| USB-MIDI | OFF, ON | Specifies whether MIDI messages received at the USB or MIDI IN port are transmitted without | |
| Thru | | change from the MIDI OUT connector and USB port (ON) or not (OFF). | |
| | OFF, MIDI | Sets which connector is used for input when you use an external MIDI keyboard instead of the | |
| | IN, USB | keyboard of the SH-4d. | |
| | | Normally you will leave this "OFF". | |
| | | OFF: External MIDI Notes are ignored. The keyboard of the SH-4d is used exclusively. | |
| | | MIDI IN: Uses the MIDI device that's connected to the MIDI IN connector. | |
| | | USB: Uses the input from a computer that's connected via USB. | |
| Remote Kbd | | | |
| | | * As the SH-4d does not support USB HOST functionality, you can't connect and use a MIDI keyboard or similar controller via USB. | |
| | | MEMO | |
| | | | |
| | | Set the transmit channel of your external MIDI keyboard to the Ctrl Ch of this unit. | |
| | 055 014 | → "System Settings (SYSTEM SETTINGS)(P.76)" | |
| Local Sw | OFF, ON | Connects (ON) or disconnects (OFF) the keyboard from the internal sound generator. | |

MIDI Tx

| Parameter | Value | Explanation |
|-----------|---------|---|
| Tx PC | OFF, ON | Specifies whether program change messages will be transmitted (ON) or not be transmitted (OFF). |
| Tx Bank | OFF, ON | Specifies whether bank select messages will be transmitted (ON) or not be transmitted (OFF). |

MIDI Rx

| Parameter | Value | Explanation |
|-----------|---------|---|
| Rx PC | OFF, ON | Specifies whether program change messages will be received (ON) or not be received (OFF). |
| Rx Bank | OFF, ON | Specifies whether bank select messages will be received (ON) or not be received (OFF). |

CONTROLLER

| Parameter | Value | Explanation |
|-------------------|----------------------------------|---|
| KBD Sw | 1–127 | Sets the note velocity that's generated when you press one of the keyboard |
| Velo | | buttons on this unit. |
| | DIRECT, CATCH | Specifies whether the parameter value corresponding to a controller is |
| Knob | | immediately updated when you operate that controller (DIRECT) or only after |
| Mode | | the controller reaches the same position as the parameter's current value |
| | | (CATCH). |
| | WHITE, YELLOW, ORANGE, PURPLE, | Sets the color used to light up each [1]–[16] button LED, when notes are |
| Note Color | PINK, SKY BLUE, PALE YELLOW, | present in the corresponding steps (in sequencer mode). |
| | PALE GREEN, PALE BLUE, PALE PINK | |

D-MOTION

| Parameter | Value | Explanation |
|-----------|-------|--|
| Offset X | -100- | Sets the output X (horizontal direction) value when this unit is placed flat. |
| Offset X | +100 | |
| Offset Y | -100- | Sets the output Y (forward/backward direction) value when this unit is placed flat. |
| Offset 1 | +100 | |
| Sense | 1–10 | Sets the output sensitivity to this unit's tilt. |
| Sense | | Smaller values produce a greater output in respect to this unit's tilt. |
| Gravity | 0–10 | When this unit is placed nearly flat, this sets how much force is required to return the output value to |
| | | zero. |

Configuring the System EQ and System Comp Settings (SYSTEM EQ/SYSTEM COMP)

| Parameter | Value | Explanation | |
|---------------|--------------------------|---|--|
| SYSTEM EQ | | | |
| Switch | OFF, ON | Turns SYSTEM EQ on/off. | |
| In Gain | -24-+24 [dB] | Adjusts the amount of boost/cut for the input to the EQ. | |
| Low Gain | -24.0-+24.0 [dB] | Adjusts the boost/cut of the low frequency range. | |
| Mid1 Gain | -24.0-+24.0 [dB] | Adjusts the amount of boost/cut of the mid-frequency range 1. | |
| Mid2 Gain | -24.0-+24.0 [dB] | Adjusts the amount of boost/cut of the mid-frequency range 2. | |
| Mid3 Gain | -24.0-+24.0 [dB] | Adjusts the amount of boost/cut of the mid-frequency range 3. | |
| High Gain | -24.0-+24.0 [dB] | Adjusts the boost/cut of the high frequency range. | |
| Low Freq | 20-16000 [Hz] | Sets the center frequency of the low range. | |
| Mid1 Freq | 20-16000 [Hz] | Sets the center frequency of the mid range 1. | |
| Mid2 Freq | 20-16000 [Hz] | Sets the center frequency of the mid range 2. | |
| Mid3 Freq | 20-16000 [Hz] | Sets the center frequency of the mid range 3. | |
| High Freq | 20-16000 [Hz] | Sets the center frequency of the high range. | |
| Mid1 Q | 0.5-16.0 | Sets the bandwidth of the mid-frequency range 1. | |
| | | Higher values make the bandwidth narrower. | |
| Mid2 Q | 0.5-16.0 | Sets the bandwidth of the mid-frequency range 2. | |
| | | Higher values make the bandwidth narrower. | |
| Mid3 Q | 0.5–16.0 | Sets the bandwidth of the mid-frequency range 3. | |
| 6)/6==14.6014 | | Higher values make the bandwidth narrower. | |
| SYSTEM COM | | T CVCTEM COMP / - # | |
| Switch | OFF, ON | Turns SYSTEM COMP on/off. | |
| Low Attack | 0.1–100 [ms] | Specifies the time from when the input exceeds Low Thres until compression is applied to the volume of the low-frequency band. | |
| Low Poloaco | 10–1000 [ms] | In a state when compression is already being applied, this specifies the time from when the | |
| LOW Release | 10-1000 [1115] | input decreases below Low Thres until the low-frequency band stops being compressed. | |
| Low Thres | -60-0 [dB] | Specifies the volume level at which compression starts for the low-frequency band. | |
| Low Ratio | 1:1, 2:1, 3:1, 4:1, 8:1, | Specifies the compression ratio for the low-frequency band. | |
| 2011 114110 | 16:1, 32:1, INF:1 | separate and compression ratio for the form requestey search | |
| Low Knee | 0-30 [dB] | This function smooths out the sonic transition, from when the compression is not engaged | |
| | | until when the compression begins. | |
| | | This gradually applies compression from just before the Low Thres point. | |
| | | Higher values produce a smoother transition. | |
| Low Gain | -24-+24 [dB] | Specifies the output volume of the low-frequency band. | |
| Mid Attack | 0.1–100 [ms] | Specifies the time from when the input exceeds Mid Thres until compression is applied to | |
| | | the volume of the mid-frequency band. | |
| Mid Release | 10–1000 [ms] | In a state when compression is already being applied, this specifies the time from when the | |
| Mid Thres | -60–0 [dB] | input decreases below Mid Thres until the mid-frequency band stops being compressed. | |
| Mid Thres | | Specifies the volume level at which compression starts for the mid-frequency band. | |
| MIG RALIO | 16:1, 32:1, INF:1 | Specifies the compression ratio for the mid-frequency band. | |
| Mid Knee | 0–30 [dB] | This function smooths out the sonic transition, from when the compression is not engaged | |
| mid itilee | 0 30 [0] | until when the compression begins. | |
| | | This gradually applies compression from just before the Mid Thres point. | |
| | | Higher values produce a smoother transition. | |
| Mid Gain | -24-+24 [dB] | Specifies the output volume of the mid-frequency band. | |
| High Attack | 0.1-100 [ms] | Specifies the time from when the input exceeds High Thres until compression is applied to | |
| | | the volume of the high-frequency band. | |
| High | 10–1000 [ms] | In a state when compression is already being applied, this specifies the time from when the | |
| Release | | input decreases below High Thres until the high-frequency band stops being compressed. | |
| High Thres | -60–0 [dB] | Specifies the volume level at which compression starts for the high-frequency band. | |
| High Ratio | 1:1, 2:1, 3:1, 4:1, 8:1, | Specifies the compression ratio for the high-frequency band. | |
| 111 1 12 | 16:1, 32:1, INF:1 | This formation and a shade a solidary state of the state | |
| High Knee | 0-30 [dB] | This function smooths out the sonic transition, from when the compression is not engaged until when the compression begins. | |
| | | This gradually applies compression from just before the High Thres point. | |
| | | Higher values produce a smoother transition. | |
| High Gain | -24-+24 [dB] | Specifies the output volume of the high-frequency band. | |
| Split Freq | 16–16000 [Hz] | Specifies the frequency at which the low-frequency band (Low) and mid-frequency band | |
| Low | | (Mid) are divided. | |
| Split Freq | 16-16000 [Hz] | Specifies the frequency at which the high-frequency band (High) and mid-frequency band | |
| High | | (Mid) are divided. | |
| | | | |

Creating Phrases and Modulation (VISUAL ARPEGGIO)

This function lets you create phrases and modulation by various means.



BOUNCE

Press a keyboard button and then tilt this unit.

You can also play using an external keyboard connected to this unit.

| Controller | Explanation |
|------------|---|
| [1] knob | Sets the width of the bouncing board. |
| [2] knob | Sets the strength of the rebound effect on the board. |

BUBBLE

Press a keyboard button.

You can also play using an external keyboard connected to this unit.

| Controller | Explanation | |
|------------|--|--|
| [1] knob | Adjusts the overall speed. | |
| [2] knob | Sets how much the tilt of this unit affects the movement of the bubbles. | |
| [^] button | The bubbles are erased from first to last. | |
| [V] button | The bubbles are erased from last to first. | |

SKETCH

Draw a series of notes (a scale) on the screen and press the [ENTER] button.

| Controller | Explanation | |
|---------------------------|---|--|
| [1] knob | Moves the cursor left/right. | |
| [1] KNOD | Hold down the knob and move it to draw lines. | |
| Moves the cursor up/down. | | |
| [2] knob | Hold down the knob and move it to draw lines. | |
| | Sets the scale used to quantize the notes you draw (making the notes you draw fit into the scale). | |
| [<] [>] buttons | If this is set to a value other than "CHROMA", the notes that play are the closest in the selected scale to the | |
| | ones you drew. | |
| [A][V] buttons | Sets the scale root. | |
| Keyboard | Moves the cursor to the note position (pitch) you played. | |
| buttons | | |

PONG

Press a keyboard button and use the [1] and [2] knobs to move the paddles.

| Controller | Explanation |
|------------|-------------------------|
| [1] knob | Moves the left paddle. |
| [2] knob | Moves the right paddle. |

ORBIT

Press the [^] button and use the keyboard buttons to play a sustaining sound.



You can more easily trigger the effect if you set the AMP [SUSTAIN] knob to a higher value to create a sustaining sound while the keyboard buttons are being played.

| Controller | Explanation |
|----------------|---|
| [1] knob | Sets the effect destination parameter. |
| [2] knob | Sets the strength of the effect. |
| [^][V] buttons | Increases or decreases the number of satellites. |
| [<][>] buttons | Speeds up ([>]) or slows down ([<]) the movement of the satellites. |

Restoring the Factory Settings (Factory Reset)

Here's how to return the SH-4d to its factory-set state.

 On the MENU screen, select "FACTORY RESET", and then press the [ENTER] button to display the dialog screen.



2. Press the [>] button and select "OK", and then press the [ENTER] button to execute the factory reset.

NOTE

Never turn off the power while the "Executing..." message is shown and the unit is still processing.

3. Once the message "Completed. Turn the power off." appears on the screen, turn this unit off.



Prioritizing the Battery (Battery Fixed Operation Mode)

In this mode, the unit does not switch to using bus power, even when a USB power supply is connected to the USB port.

Although the unit does normally switch to bus power when batteries are installed and you connect a power supply to the USB port, you can make the unit run on batteries only when using battery fixed operation mode, regardless of the bus power supply.

When the power is turned off, the fixed battery operation mode is canceled.

1. While holding down the [∨] button, turn on the power.

This makes this unit operate on batteries.

Backing Up and Restoring Data

Backup

- 1. Connect your computer to the SH-4d's USB port via USB cable.
- 2. While holding down the [EXIT] button, turn on the power.
- 3. Open the "SH-4D" drive on your computer.

The backup files are located in the "BACKUP" folder on the "SH-4D" drive.

- 4. Copy the backup files to the computer.
- 5. Once copying is finished, eject the USB drive from your computer.

Windows

Right-click on the "SH-4D" icon on your computer (located on the right corner of the taskbar or in Windows Explorer), and click "Eject".

macOS

Drag the "SH-4D" icon to the Trash icon in the Dock.

6. Turn off the power.

Restoring

- 1. Connect your computer to the SH-4d's USB port via USB cable.
- 2. While holding down the [START] button, turn the power on.
- 3. Open the "SH-4d" drive on your computer.
- 4. The backup files are copied to the "RESTORE" folder on the "SH-4d" drive.
- 5. Once copying is finished, eject the USB drive from your computer, and press the [ENTER] button.
- 6. Once the message "Completed. Turn the power off." appears on the screen, turn this unit off.

Main Specifications

| User Memory | SOUND PTACH: 256 |
|---------------------------------|---|
| , | PATTERN: 128 |
| Sound Generator | SH-4d sound engine |
| Oscillator Model | SH-4d |
| | SH-3D |
| | SYNC |
| | SH-101 |
| | JUNO-106 |
| | Cross FM |
| | RING |
| | WAVETABLE |
| | CHORD |
| | DRAWING |
| | PCM RHYTHM (only for RHYTHM part) |
| Maximum Palumbany | 60 voices (varies according to the sound generator load) |
| Maximum Polyphony Parts | 5 parts (Tone part: 4, Rhythm part: 1) |
| Effects | Multi-Effects: 5 systems, 93 types |
| Lifetts | Reverb: 9 types |
| | Chorus: 5 types |
| | Delay: 5 types |
| | Master Effect: 93 types |
| | Master EQ / Comp |
| Arpeggiator | 5 types |
| Sequencer | parts: 5 |
| | Steps: 64 |
| | Sub Steps |
| | Flam |
| | Probability |
| Controllers | Switch Keyboard |
| | Step buttons |
| | D-Motion (motion sensor) |
| Display | Graphic LCD 128 x 64 dots |
| Connectors | PHONES jack: stereo standard type |
| | OUTPUT jacks (L/MONO, R): standard type MIX IN jack: stereo mini type |
| | EXT CLK IN jack: mini type |
| | MIDI (IN, OUT) jacks |
| | USB port: USB Type-C* (Audio, MIDI) |
| Power source | USB bus power supply (USB Type-C° port) |
| . one. source | Ni-MH batteries (AA, HR6) (sold separately) x 4 |
| | Alkaline battery (AA, LR6) (sold separately) x 4 |
| Power consumption | 500 mA (USB bus power supply) |
| Battery life for continuous use | Alkaline battery: Approx. 4 hours |
| · | Ni-MH battery: Approx. 5 hours |
| | |
| | * Depends on battery specifications, capacity, and usage conditions. |
| Dimensions | 360 (W) x 195 (D) x 66 (H) mm |
| | 14-3/16 (W) x 7-11/16 (D) x 2-5/8 (H) inches |
| Weight | 1,780 g (excluding Batteries) |
| | 3 lbs 15 oz |
| Accessories | Quick Start |
| | "Safety Precautions" leaflet |
| | USB Type-C to USB Type-A cable |
| | Alkaline battery (AA, LR6) x 4 |

^{*} This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.

MFX Parameters

MFX List

| MFX Common Parameters (P.89) | |
|------------------------------|---|
| Thru(P.90) | |
| Filter Type(P.91) | Equalizer(P.91) |
| | Mid-Side EQ (Mid-Side Equalizer) (P.92) |
| | Spectrum(P.93) |
| | Isolator(P.93) |
| | Low Boost(P.94) |
| | SuperFilter(P.94) |
| | MM Filter (Multi-mode Filter) (P.95) |
| | Step Filter(P.96) |
| | Enhancer(P.96) |
| | Exciter(P.97) |
| | Auto Wah(P.98) |
| | Humanizer(P.98) |

| Phaser Type (P.100) | Phaser(P.100) |
|------------------------|---|
| | Small Phaser (P.101) |
| | Script 90(P.101) |
| | Script 100(P.101) |
| | Script 100(1.101) |
| | Step Phaser(P.102) |
| | M StagePhsr (Multi Stage Phaser) (P.103) |
| | Inf Phaser (Infinite Phaser)(P.103) |
| Flanger Type (P.105) | Flanger(P.105) |
| | SBF-325 (Flanger) (P.106) |
| | StepFlanger(P.106) |
| (D.100) | Chorus(P.108) |
| Chorus Type(P.108) | Hexa-Chorus (P.108) |
| | Trem Chorus (Tremolo Chorus) (P.109) |
| | Space-D(P.110) CE-1 (Chorus)(P.110) |
| | SDD-320 (DIMENSION D)(P.111) |
| | JUNO Chorus (JUNO-106Chorus) (P.111) |
| | Ring Mod (Ring modulator) (P.113) |
| Modulation Type(P.113) | Tremolo(P.113) |
| | Auto Pan(P.114) |
| | Slicer(P.115) |
| | Rotary(P.115) |
| | VK Rotary(P.116) |
| (2.1.2) | Overdrive(P.118) |
| Drive / Amp(P.118) | Distortion(P.118) |
| | T-Scream(P.119) |
| | Fuzz(P.119) |
| | Fattener (Tone Fattener) (P.119) |
| | HMS Distort (HMS Distortion) (P.120) |
| | Saturator(P.120) |
| | W Saturator (Worm Saturator) (P.121) |
| | Gt Amp Sim (Guitar Amp Simulator) (P.122) |
| | EP Amp Sim (RD EP Amp Simulator)(P.124) Speaker Sim (Speaker Simulater)(P.124) |
| | Speaker Silli (Speaker Silliulater)(F.124) |

| (D 126) | Compressor(P.126) |
|-----------------------|--|
| Comp / Limiter(P.126) | M/S Comp (Mid-Side Compressor)(P.126) |
| | Limiter(P.127) |
| | Sustainer(P.127) |
| | Transient(P.128) |
| | Gate(P.128) |
| (| Delay(P.130) |
| Delay Type(P.130) | Mod Delay (Modulation Delay)(P.131) |
| | 2Tap PanDly (2 Tap Pan Delay)(P.133) |
| | 3Tap PanDly (3 Tap Pan Delay)(P.134) |
| | 4Tap PanDly (4 Tap Pan Delay)(P.135) |
| | MultiTapDly (Multi Tap Delay)(P.136) |
| | Reverse Dly (Reverse Delay)(P.137) |
| | TimeCtrlDly (Time Control Delay) (P.138) |
| | Tape Echo(P.139) |
| | M/S Delay (Mid-Side Delay)(P.140) |
| | DJFX Looper(P.142) |
| Looper(P.142) | BPM Looper(P.142) |
| | LOFI Comp (Lo-Fi Compressor) (P.144) |
| Lo-fi(P.144) | Bit Crusher(P.144) |
| | Phonograph(P.145) |
| | PitchShiftr (Pitch Shifter)(P.146) |
| Pitch(P.146) | 2V PShifter (2 Voice Pitch Shifter)(P.146) |

OD -> Chorus (Overdrive -> Chorus) (P.148) Combination (P.148) OD -> Flanger (Overdrive -> Flanger)(P.149) OD -> Delay (Overdrive -> Delay)(P.149) DS -> Chorus (Distortion -> Chorus)(P.150) DS -> Flanger (Distortion -> Flanger)(P.151) DS -> Delay (Distortion -> Delay)(P.151) OD/DS -> T. Wah (Overdrive/Distortion -> Touch Wah)(P.152) $OD/DS \rightarrow A$. Wah (Overdrive/Distortion -> Auto Wah)(P.152) Gt -> Chorus (Guitar Amp Simulator -> Chorus) (P.153) Gt -> Flanger (Guitar Amp Simulator -> Flanger)(P.154) Gt -> Phaser (Guitar Amp Simulator -> Phaser) (P.156) Gt -> Delay (Guitar Amp Simulator -> Delay) (P.157) EP -> Tremolo (EP Amp Simulator -> Tremolo) (P.158) EP -> Chorus (EP Amp Simulator -> Chorus) (P.159) EP -> Flanger (EP Amp Simulator -> Flanger)(P.160) EP -> Phaser (EP Amp Simulator -> Phaser)(P.160) EP -> Delay (EP Amp Simulator -> Delay) (P.161) Enhncr -> Cho (Enhancer -> Chorus)(P.162) Enhncr -> FI (Enhancer -> Flanger) (P.162) Enhncr -> Dly (Enhancer -> Delay) (P.163) Chorus -> Dly (Chorus -> Delay) (P.164) Flanger -> Dly (Flanger -> Delay)(P.164) Chorus -> FI (Chorus -> Flanger) (P.165) JD-Multi(P.166)

MFX Common Parameters

| Parameter | Value | Explanation | |
|----------------|---------------------------|--|--|
| Categ | Selects the MFX category. | | |
| Туре | Selects the MFX type. | | |
| Switch | OFF, ON | Switches the MFX on/off. | |
| MFX parameters | Depends on the MFX type. | For details, refer to each MFX parameter. | |
| Cho Send | 0–127 | Sets the amount of chorus. If you don't want to add the chorus effect, set it to 0. | |
| Rev Send | 0–127 | Sets the amount of reverb. If you don't want to add the reverb effect, set it to 0. | |

MEMO

- When sending audio signals with the rhythm part from the MFX to the pattern chorus/reverb, raise the Reverb/Chorus/Delay Send level of the rhythm part to set on the MIXER screen.
 - → "Adjusting the Volume Balance and Effect Sends(P.20)"
- For the rhythm part, the signal sent from the MFX to the pattern chorus/reverb is routed separately from the effect send for each rhythm instrument.

Thru

L in L out

R in R out

Filter Type

Equalizer(P.91)

Mid-Side EQ (Mid-Side Equalizer) (P.92)

Spectrum (P.93)

Isolator(P.93)

Low Boost (P.94)

SuperFilter(P.94)

MM Filter (Multi-mode Filter) (P.95)

Step Filter (P.96)

Enhancer(P.96)

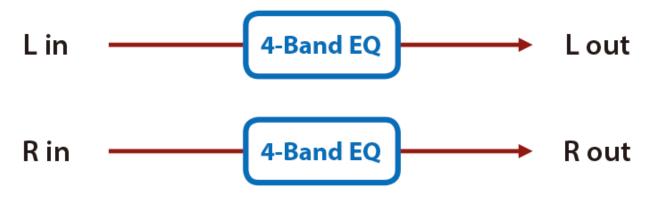
Exciter(P.97)

Auto Wah (P.98)

Humanizer(P.98)

Equalizer

This is a four-band stereo equalizer (low, mid x 2, high).



| Parameter | Value | Explanation |
|-----------|--|--|
| Low Freq | 20, 25, 31, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400 [Hz] | Frequency of the low range |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| Mid1 Freq | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz] | Frequency of the middle range 1 |
| Mid1 Gain | -15-+15 [dB] | Gain of the middle range 1 |
| Mid1 Q | 0.5, 1.0, 2.0, 4.0, 8.0 | Width of the middle range 1 Set a higher value for Q to narrow the range to be affected. |
| Mid2 Freq | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz] | Frequency of the middle range 2 |
| Mid2 Gain | -15-+15 [dB] | Gain of the middle range 2 |

| Parameter | Value | Explanation |
|-----------|--|--|
| | 0.5, 1.0, 2.0, 4.0, 8.0 | Width of the middle range 2 |
| Mid2 Q | | Set a higher value for Q to narrow the range |
| | | to be affected. |
| HighFreq | 2000, 2500, 3150, 4000, 5000, 6300, 8000, 10000, 12500, 16000 [Hz] | Frequency of the high range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency |
| nigh Gain | | range |
| Level | 0–127 | Output Level |

Mid-Side EQ (Mid-Side Equalizer)

This effect allows the left/right signals that have similar phase to be tonally adjusted in a different way than the left/right signals that have different phase.

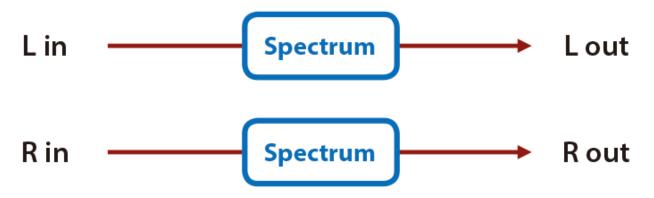


| Parameter | Value | Explanation |
|-------------|--|---|
| M EQ | OFF, ON | Switches whether to apply tonal adjustment to left/right |
| Switch | | input signals whose phase is similar (in phase). |
| M In G | -12.00-+12.00 [dB] | Volume of left/right input signals whose phase is similar (in |
| Milli | | phase) |
| M Low F | 20, 25, 31, 40, 50, 63, 80, 100, 125, 160, 200, 250, | Frequency of the low range |
| | 315, 400 [Hz] | |
| M Low G | -12.00-+12.00 [dB] | Amount of boost/cut for the low-frequency range |
| M Mid1 F | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz] | Frequency of the middle range 1 |
| M Mid1G | -12.00-+12.00 [dB] | Gain of the middle range 1 |
| M Mid1 Q | 0.5, 1.0, 2.0, 4.0, 8.0 | Width of the middle range 1 |
| m mar Q | | Set a higher value for Q to narrow the range to be affected. |
| M Mid2 F | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, | Frequency of the middle range 2 |
| | 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz] | |
| M Mid2G | -12.00-+12.00 [dB] | Gain of the middle range 2 |
| M Mid2 Q | 0.5, 1.0, 2.0, 4.0, 8.0 | Width of the middle range 2 |
| | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, | Set a higher value for Q to narrow the range to be affected. Frequency of the middle range 3 |
| M Mid3 F | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz] | Frequency of the middle range 3 |
| M Mid3G | -12.00-+12.00 [dB] | Gain of the middle range 3 |
| | 0.5, 1.0, 2.0, 4.0, 8.0 | Width of the middle range 3 |
| M Mid3 Q | 3.27 3.27 2.37 3.37 | Set a higher value for Q to narrow the range to be affected. |
| NA 11: I- F | 2000, 2500, 3150, 4000, 5000, 6300, 8000, 10000, | Frequency of the high range |
| M High F | 12500, 16000 [Hz] | |
| M HighG | -12.00-+12.00 [dB] | Amount of boost/cut for the high-frequency range |
| S EQ | OFF, ON | Switches whether to apply tonal adjustment to left/right |
| Switch | | input signals whose phase is distant (opposite phase). |
| S In G | -12.00-+12.00 [dB] | Volume of left/right signals whose phase is distant (opposite phase) |
| S Low F | 20, 25, 31, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400 [Hz] | Frequency of the low range |
| S Low G | -12.00-+12.00 [dB] | Amount of boost/cut for the low-frequency range |
| S Mid1 F | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz] | Frequency of the middle range 1 |
| S Mid1G | -12.00-+12.00 [dB] | Gain of the middle range 1 |
| C M: Ja O | 0.5, 1.0, 2.0, 4.0, 8.0 | Width of the middle range 1 |
| S Mid1 Q | | Set a higher value for Q to narrow the range to be affected. |
| S Mid2 F | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz] | Frequency of the middle range 2 |
| S Mid2G | -12.00-+12.00 [dB] | Gain of the middle range 2 |

| Parameter | Value | Explanation |
|-----------|--|--|
| S Mid2 Q | 0.5, 1.0, 2.0, 4.0, 8.0 | Width of the middle range 2 |
| 3 Mid2 Q | | Set a higher value for Q to narrow the range to be affected. |
| S Mid3 F | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, | Frequency of the middle range 3 |
| 3 Milus F | 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz] | |
| S Mid3G | -12.00-+12.00 [dB] | Gain of the middle range 3 |
| S Mid3 Q | 0.5, 1.0, 2.0, 4.0, 8.0 | Width of the middle range 3 |
| S MIGS Q | | Set a higher value for Q to narrow the range to be affected. |
| CHimbr | 2000, 2500, 3150, 4000, 5000, 6300, 8000, 10000, | Frequency of the high range |
| S High F | 12500, 16000 [Hz] | |
| S HighG | -12.00-+12.00 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

Spectrum

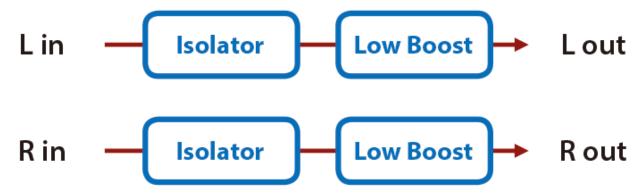
This is a stereo spectrum. Spectrum is a type of filter which modifies the timbre by boosting or cutting the level at specific frequencies.



| Parameter | Value | Explanation |
|-----------|-------------------------|--|
| Band1 | -15-+15 [dB] | Gain of each frequency band |
| Band2 | | |
| Band3 | | |
| Band4 | | |
| Band5 | | |
| Band6 | | |
| Band7 | | |
| Band8 | | |
| Q | 0.5, 1.0, 2.0, 4.0, 8.0 | Simultaneously adjusts the width of the adjusted ranges for all the frequency bands. |
| Level | 0–127 | Output Level |

Isolator

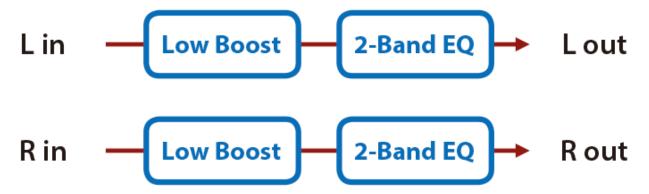
This is an equalizer which cuts the volume greatly, allowing you to add a special effect to the sound by cutting the volume in varying ranges.



| Parameter | Value | Explanation |
|--------------|----------------|---|
| Low Level | -60-+4 [dB] | These boost and cut each of the High, Middle, and Low frequency ranges. At -60 dB, the sound becomes inaudible. 0 dB is equivalent to the input level of the sound. |
| Mid Level | -60-+4 [dB] | - |
| High Level | -60-+4 [dB] | |
| Low AP Sw | OFF, ON | Turns the Anti-Phase function on and off for the Low frequency ranges. When turned on, the counter-channel of stereo sound is inverted and added to the signal. |
| Low AP Lv | 0–127 | Adjusts the level settings for the Low frequency ranges. Adjusting this level for certain frequencies allows you to lend emphasis to specific parts (This is effective only for stereo source.). |
| Mid AP Sw | OFF, ON | Settings of the Anti-Phase function for the Middle frequency ranges. |
| Mid AP Lv | 0–127 | The parameters are the same as for the Low frequency ranges. |
| Boost Sw | OFF, ON | Turns Low Booster on/off. This emphasizes the bottom to create a heavy bass sound. |
| Boost Lv | 0–127 | Increasing this value gives you a heavier low end. Depending on the Isolator and filter settings this effect may be hard to distinguish. |
| Level | 0–127 | Output Level |

Low Boost

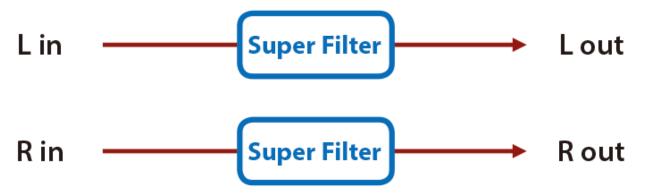
Boosts the volume of the lower range, creating powerful lows.



| Parameter | Value | Explanation |
|-------------------|--|---|
| Boost Freq | 50, 56, 63, 71, 80, 90, 100, 112, 125 [Hz] | Center frequency at which the lower range will be boosted |
| Boost Gain | 0-+12 [dB] | Center frequency at which the lower range will be boosted |
| Boost Wid | WIDE, MID, NARROW | Width of the lower range that will be boosted |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

SuperFilter

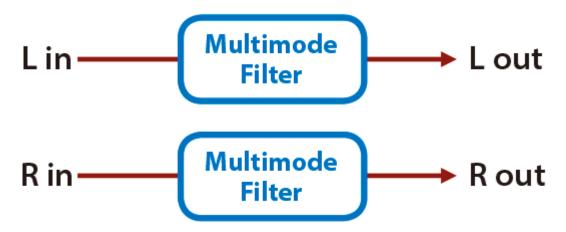
This is a filter with an extremely sharp slope. The cutoff frequency can be varied cyclically.



| Parameter | Value | Explanation | |
|------------|---------------------------|--|--|
| | LPF, BPF, HPF, NOTCH | Frequency range that will pass through each filter | |
| | | LPF: Frequencies below the cutoff | |
| Type | | BPF: Frequencies in the region of the cutoff | |
| | | HPF: Frequencies above the cutoff | |
| | | NOTCH: Frequencies other than the region of the cutoff | |
| | -12, -24, -36 [dB] | Amount of attenuation per octave | |
| Slope | | -12 dB: Gentle | |
| Siope | | -24 dB: Steep | |
| | | -36 dB: Extremely steep | |
| Cutoff | 0–127 | Cutoff frequency of the filter | |
| Cuton | | Increasing this value will raise the cutoff frequency. | |
| Resonance | 0–100 | Filter resonance level | |
| Resoliance | | Increasing this value will emphasize the region near the cutoff frequency. | |
| Gain | 0-+12 [dB] | Amount of boost for the filter output | |
| Mod Sw | OFF, ON | On/off switch for cyclic change | |
| | TRI, SQR, SIN, SAW1, SAW2 | How the cutoff frequency will be modulated | |
| | | TRI: Triangle wave | |
| | | SQR: Square wave | |
| | | SIN: Sine wave | |
| | | SAW1: Sawtooth wave (upward) | |
| Mod Wave | | SAW2: Sawtooth wave (downward) | |
| wod wave | | CANA/2 | |
| | | SAW1 SAW2 | |
| | | | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. | |
| Rate Sync | | Tempo (Pattern)(P.53) | |
| | | Tempo (System)(P.77) | |
| Rate | 0.05-10.00 [Hz] | Frequency of modulation | |
| Rate Note | Note(P.168) | | |
| Depth | 0–127 | Depth of modulation | |
| | 0–127 | Speed at which the cutoff frequency will change | |
| Attack | | This is effective if Mod Wave is SQR, SAW1, or SAW2. | |
| Level | 0–127 | Output Level | |
| | | | |

MM Filter (Multi-mode Filter)

This is a filter that is adjusted for effective use in a DJ performance.

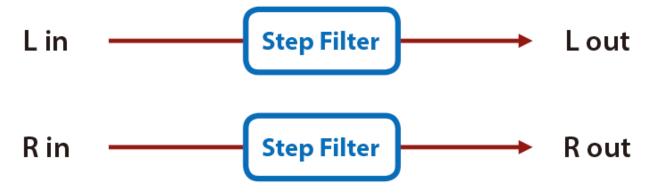


| Parameter | Value | Explanation |
|-----------|---------------------------|--|
| Туре | LPF/HPF, LPF, HPF, BPF | Filter type LPF/HPF: The filter type is automatically switched according to the Filter Tone parameter value. |
| Tone | 0–255 | Frequency at which the filter operates |

| Parameter | Value | Explanation |
|-----------|--------------------|--|
| Color | 0-255 | Filter resonance level |
| Color | | Higher values more strongly emphasize the region of the operating frequency. |
| | -12, -24, -36 [dB] | Amount of attenuation per octave |
| Slope | | -12 dB: gentle |
| Siope | | -24 dB: steep |
| | | -36 dB: extremely steep |
| Gain | 0-+12 [dB] | Amount of boost for the filter output |
| Level | 0–127 | Output Level |

Step Filter

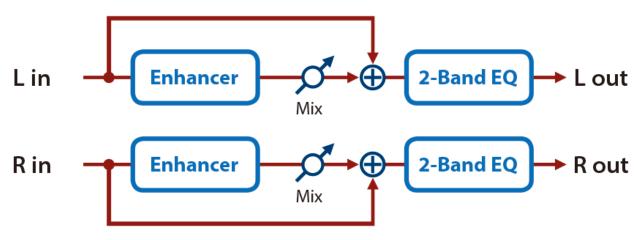
This is a filter whose cutoff frequency can be modulated in steps. You can specify the pattern by which the cutoff frequency will change.



| Parameter | Value | Explanation |
|-----------|----------------------|--|
| Step 1-16 | 0–127 | Cutoff frequency at each step |
| | | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Rate Sync | | Tempo (Pattern)(P.53) |
| | | Tempo (System)(P.77) |
| Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| Rate Note | Note(P.168) | |
| Attack | 0–127 | Speed at which the cutoff frequency changes between steps |
| | LPF, BPF, HPF, NOTCH | Frequency range that will pass through each filter |
| | | LPF: Frequencies below the cutoff |
| Туре | | BPF: Frequencies in the region of the cutoff |
| | | HPF: Frequencies above the cutoff |
| | | NOTCH: Frequencies other than the region of the cutoff |
| | -12, -24, -36 [dB] | Amount of attenuation per octave |
| Clana | | -12 dB: Gentle |
| Slope | | -24 dB: Steep |
| | | -36 dB: Extremely steep |
| Dana | 0–127 | Filter resonance level |
| Reso | | Increasing this value will emphasize the region near the cutoff frequency. |
| Gain | 0-+12 [dB] | Amount of boost for the filter output |
| Level | 0–127 | Output Level |

Enhancer

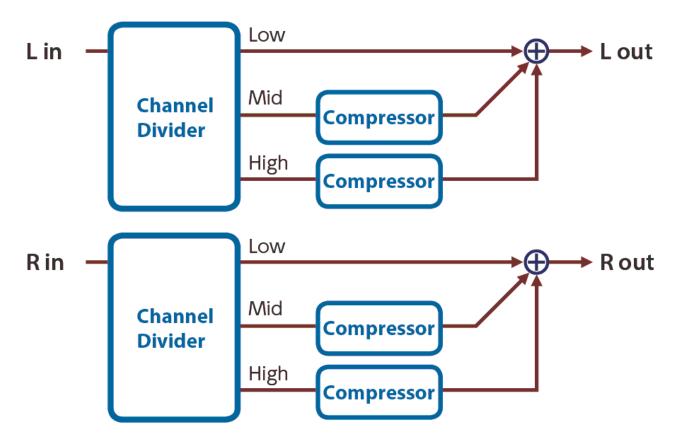
Controls the overtone structure of the high frequencies, adding sparkle and tightness to the sound.



| Parameter | Value | Explanation |
|-----------|--------------|--|
| Sens | 0–127 | Sensitivity of the enhancer |
| Mix | 0–127 | Level of the overtones generated by the enhancer |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

Exciter

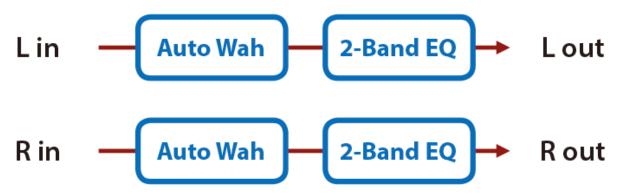
This adds dynamics to the sound, by dynamically bringing up the high end using a split-band compressor.



| Parameter | Value | Explanation |
|------------------|-----------------|---|
| Band2 Threshold | -80.0-0.0 (dB) | Raises the midrange frequency levels when they fall below the specified amount. |
| Band2 Max Gain | 0-+24 (dB) | Sets how much to raise the levels when the midrange volume is low. |
| Band3 Threshold | -80.0-0.0 (dB) | Raises the high-end frequency levels when they fall below the specified amount. |
| Band3 Max Gain | 0-+24 (dB) | Sets how much to raise the levels when the high-end frequency volume is low. |
| Split1 Frequency | 2000-5000 (Hz) | Frequency at which the low and midrange frequencies are split |
| Split2 Frequency | 3000-10000 (Hz) | Frequency at which the midrange and high-end frequencies are split |
| Level | 0–127 | Output Level |

Auto Wah

Cyclically controls a filter to create cyclic change in timbre.



| Parameter | Value | Explanation |
|------------------|-----------------|--|
| | LPF, BPF | Filter type |
| Mode | | LPF: The wah effect will be applied over a wide frequency range. |
| | | BPF: The wah effect will be applied over a narrow frequency range. |
| Manual | 0–127 | Center frequency at which the wah effect is applied |
| Peak | 0–127 | Width of the frequency region at which the wah effect is applied |
| reak | | Increasing this value will make the frequency region narrower. |
| Sens | 0–127 | Sensitivity with which the filter is modified |
| | UP, DOWN | Direction in which the filter will move |
| Polarity | | UP: The filter will change toward a higher frequency. |
| | | DOWN: The filter will change toward a lower frequency. |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Rate Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| Rate Note | Note(P.168) | |
| Depth | 0–127 | Depth at which the wah effect is modulated |
| Phase | 0–180 [deg] | Adjusts the degree of phase shift of the left and right sounds when the wah effect is applied. |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

Humanizer

Adds a vowel character to the sound, making it similar to a human voice.



| Parameter | Value | Explanation |
|-----------|---------------|--|
| Drive Sw | OFF, ON | Overdrive on/off |
| Drive | 0–127 | Degree of distortion |
| Drive | | Also changes the volume. |
| Vowel1 | a, e, i, o, u | Selects the vowel. |
| Vowel2 | a, e, i, o, u | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Rate Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| Rate | 0.05-10.00 | Frequency at which the two vowels switch |
| nate | [Hz] | |

| Parameter | Value | Explanation |
|------------------|--------------|---|
| Rate Note | Note(P.168) | |
| Depth | 0–127 | Effect depth |
| | OFF, ON | LFO reset on/off |
| In Sync Sw | | Determines whether the LFO for switching the vowels is reset by the input signal (ON) or not (OFF). |
| InSyncThres | 0–127 | Volume level at which reset is applied |
| | 0–100 | Point at which Vowel 1/2 switch |
| Manual | | 0–49: Vowel 1 will have a longer duration. |
| Manuai | | 50: Vowel 1 and 2 will be of equal duration. |
| | | 51–100: Vowel 2 will have a longer duration. |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Pan | L64-63R | Stereo location of the output sound |
| Level | 0–127 | Output Level |

Phaser Type

Phaser (P.100)

Small Phaser (P.101)

Script 90(P.101)

Script 100(P.101)

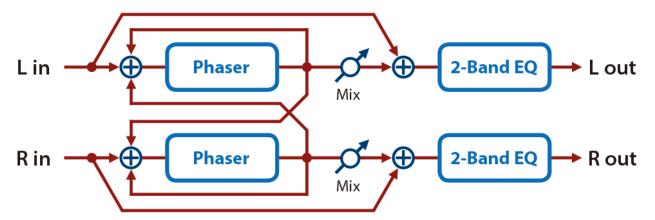
Step Phaser (P.102)

M StagePhsr (Multi Stage Phaser) (P.103)

Inf Phaser (Infinite Phaser) (P.103)

Phaser

A phase-shifted sound is added to the original sound and modulated.

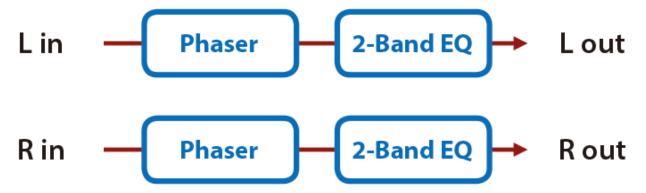


| | Explanation |
|--------------|---|
| | Number of stages in the phaser |
| | Additional the character for an arrange for a substitute of the character |
| | Adjusts the basic frequency from which the sound will be modulated. |
| | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| | Tempo (Pattern) |
| | Tempo (System)(P.76) |
| 5-10.00 [Hz] | Frequency of modulation |
| te(P.168) | |
| 127 | Depth of modulation |
| | Selects whether the left and right phase of the modulation will be the same or the opposite. INVERSE: The left and right phase will be opposite. When using a mono source, this spreads the sound. SYNCHRO: The left and right phase will be the same. Select this when inputting a stereo source. |
| 127 | Amount of feedback |
| | Adjusts the proportion of the phaser sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| 127 | Level of the phase-shifted sound |
| -+15 [dB] | Amount of boost/cut for the low-frequency range |
| -+15 [dB] | Amount of boost/cut for the high-frequency range |
| 127 | Output Level |
| 1 1 1 | 27 E, ON 5–10.00 [Hz] Ee(P.168) 27 ERSE, SYNCHRO 27 –+98 [%] 27 –+15 [dB] –+15 [dB] |

Small Phaser

This simulates an analog phaser of the past.

It is particularly suitable for electric piano.

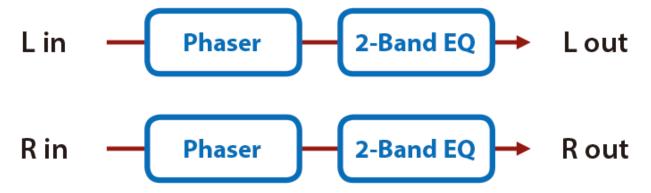


| Parameter | Value | Explanation |
|-----------|--------------|--|
| Rate | 0–100 | Frequency of modulation |
| Color | 1, 2 | Modulation character |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

Script 90

This simulates a different analog phaser than Small Phaser.

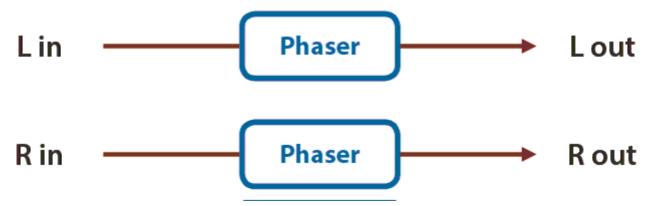
It is particularly suitable for electric piano.



| Parameter | Value | Explanation |
|-----------|--------------|--|
| Speed | 0–100 | Speed of modulation |
| Depth | 0–127 | Depth of modulation |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

Script 100

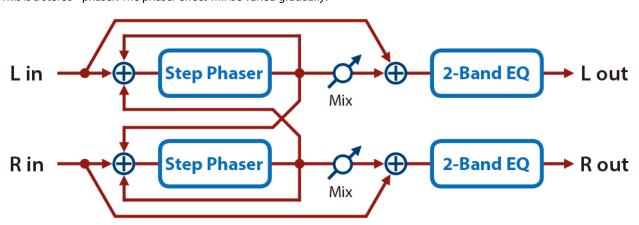
This simulates an analog phaser of the past.



| Parameter | Value | Explanation |
|------------------|--------------------|---|
| Rate Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| Rate Note | Note(P.168) | |
| Duty | -50–50 | Adjusts the ratio of speeds at which the modulation rises or falls. |
| Min | 0–100 | Lower limit reached by modulation |
| Max | 0–100 | Upper limit reached by modulation |
| Manual | OFF, ON | Applies modulation according to the value of the Manual parameter, rather than modulating |
| Sw | | automatically. |
| Manual | 0–100 | Adjusts the basic frequency from which the sound will be modulated. |
| Resonance | 0–66 | Amount of feedback |
| Mix | 0–127 | Level of the phase-shifted sound |
| Level | 0–127 | Output Level |

Step Phaser

This is a stereo phaser. The phaser effect will be varied gradually.

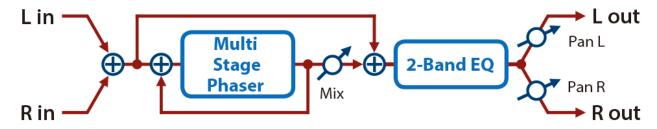


| Parameter | Value | Explanation |
|------------------|-----------------------|---|
| Mode | 4-STAGE, 8-STAGE, 12- | Number of stages in the phaser |
| Mode | STAGE | |
| Manual | 0–127 | Adjusts the basic frequency from which the sound will be modulated. |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Rate Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| Rate Note | Note(P.168) | |
| Depth | 0–127 | Depth of modulation |

| Parameter | Value | Explanation |
|----------------|------------------|--|
| Polarity | INVERSE, SYNCHRO | Selects whether the left and right phase of the modulation will be the same or the opposite. INVERSE: The left and right phase will be opposite. When using a mono source, this spreads the sound. SYNCHRO: The left and right phase will be the same. Select this when inputting a stereo source. |
| Resonance | 0–127 | Amount of feedback |
| Feedback | -98-+98 [%] | Adjusts the proportion of the phaser sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| S Rate Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| S.Rate | 0.10-20.00 [Hz] | Rate of the step-wise change in the phaser effect |
| S.Rate Nt | Note(P.168) | |
| Mix | 0–127 | Level of the phase-shifted sound |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

M StagePhsr (Multi Stage Phaser)

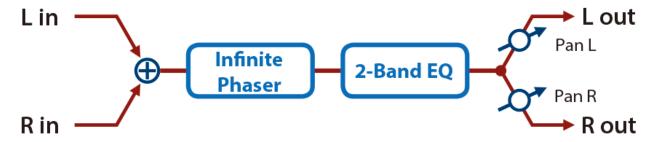
Extremely high settings of the phase difference produce a deep phaser effect.



| Parameter | Value | Explanation |
|------------------|--|--|
| Mode | 4-STAGE, 8-STAGE, 12-STAGE, 16-STAGE, 20-STAGE, 24-STAGE | Number of stages in the phaser |
| Manual | 0–127 | Adjusts the basic frequency from which the sound will be modulated. |
| Rate Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| Rate Note | Note(P.168) | _ |
| Depth | 0–127 | Depth of modulation |
| Resonance | 0–127 | Amount of feedback |
| Mix | 0–127 | Level of the phase-shifted sound |
| Pan | L64-63R | Stereo location of the output sound |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

Inf Phaser (Infinite Phaser)

A phaser that continues raising/lowering the frequency at which the sound is modulated.



| Parameter | Value | Explanation |
|-----------|--------------|--|
| Mode | 1–4 | Higher values will produce a deeper phaser effect. |
| Speed | -100-+100 | Speed at which to raise or lower the frequency at which the sound is modulated |
| Speed | | (+: upward / -: downward) |
| Resonance | 0–127 | Amount of feedback |
| Mix | 0–127 | Level of the phase-shifted sound |
| Pan | L64-63R | Stereo location of the output sound |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

Flanger Type

Flanger(P.105)

SBF-325 (Flanger) (P.106)

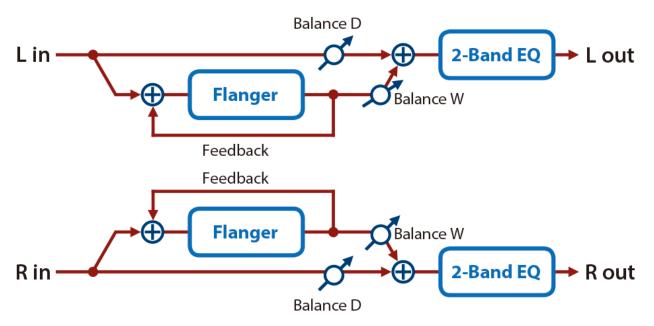
StepFlanger(P.106)

Flanger

This is a stereo flanger (The LFO has the same phase for left and right.).

It produces a metallic resonance that rises and falls like a jet airplane taking off or landing.

A filter is provided so that you can adjust the timbre of the flanged sound.



| Parameter | Value | Explanation |
|------------------|--|--|
| Туре | OFF, LPF, HPF | Filter type OFF: No filter is used LPF: Cuts the frequency range above the Cutoff Freq HPF: Cuts the frequency range below the Cutoff Freq |
| Cutoff | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz] | Basic frequency of the filter |
| Pre Delay | 0.0–100 [ms] | Adjusts the delay time from the direct sound until the flanger sound is heard. |
| Rate Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| Rate | 0.05–10.00 [Hz] | Frequency of modulation |
| Rate Note | Note(P.168) | |
| Depth | 0–127 | Depth of modulation |
| Phase | 0–180 [deg] | Spatial spread of the sound |
| Feedback | -98–+98 [%] | Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Balance | D100: 0W–D0: 100W | Volume balance between the direct sound (D) and the flanger sound (W) |

| Paramete | Value | Explanation |
|----------|-------|--------------|
| Level | 0–127 | Output Level |

SBF-325 (Flanger)

This effect reproduces Roland's SBF-325 analog flanger.

It provides three types of flanging effect (which adds a metallic resonance to the original sound) and a chorus-type effect.

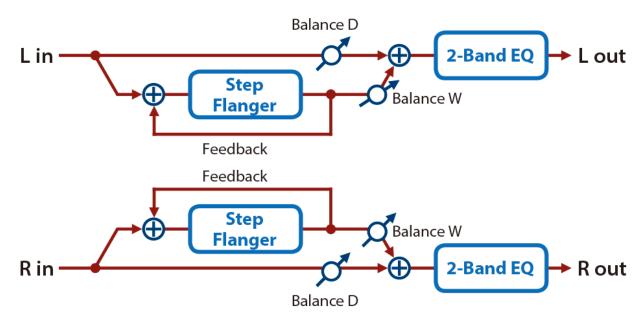


| Parameter | Value | Explanation | |
|-----------|--------------------------|---|--|
| | Types of flanging effect | | |
| | FL1 | A typical mono flanger | |
| Mode | FL2 | A stereo flanger that preserves the stereo positioning of the original sound | |
| | FL3 | A cross-mix flanger that produces a more intense effect | |
| | CHO | A chorus effect | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. | |
| Rate Sync | | Tempo (Pattern) | |
| | | Tempo (System)(P.76) | |
| Rate | 0.02-5.00 | Modulation frequency of the flanger effect | |
| nate | [Hz] | <u> </u> | |
| Rate Note | Note(P.168) | | |
| Depth | 0–127 | Modulation depth of the flanger effect | |
| Manual | 0–127 | Center frequency at which the flanger effect is applied | |
| Feedback | 0–127 | Amount by which the flanging effect is boosted | |
| reedback | | If Mode is CHO, this setting is ignored. | |
| | NORM, INV | Phase of the right channel modulation: | |
| RMod | | Normally, you will leave this at Normal (NORM). | |
| Phase | | If you specify Inverted (INV), the modulation (upward/downward movement) of the right channel | |
| | | is inverted. | |
| L Phase | NORM, INV | Phase when mixing the flanging sound with the original sound | |
| R Phase | NORM, INV | NORM: normal phase | |
| I Filase | | INV: inverse phase | |
| Level | 0–127 | Output Level | |

StepFlanger

This is a flanger in which the flanger pitch changes in steps.

The speed at which the pitch changes can also be specified in terms of a note-value of a specified tempo.



| Parameter | Value | Explanation |
|-----------------|--|--|
| Туре | OFF, LPF, HPF | Filter type OFF: No filter is used LPF: Cuts the frequency range above the Cutoff Freq HPF: Cuts the frequency range below the Cutoff Freq |
| Cutoff | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz] | Basic frequency of the filter |
| Pre Delay | 0.0–100 [ms] | Adjusts the delay time from the direct sound until the flanger sound is heard. |
| Rate Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| Rate | 0.05–10.00 [Hz] | Frequency of modulation |
| Rate Note | Note(P.168) | |
| Depth | 0–127 | Depth of modulation |
| Phase | 0–180 [deg] | Spatial spread of the sound |
| Feedback | -98-+98 [%] | Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| S.Rate Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| S.Rate | 0.10-20.00 [Hz] | Rate (period) of pitch change |
| S.Rate Nt | Note(P.168) | |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Balance | D100:0W~D0:100W | Volume balance between the direct sound (D) and the flanger sound (W) |
| Level | 0~127 | Output Level |

Chorus Type

Chorus (P.108)

Hexa-Chorus (P.108)

Trem Chorus (Tremolo Chorus) (P.109)

Space-D(**P.110**)

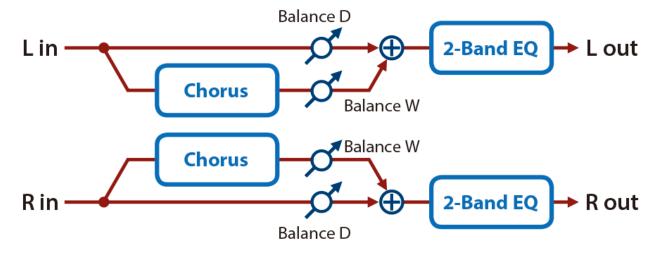
CE-1 (Chorus) (P.110)

SDD-320 (DIMENSION D)(P.111)

JUNO Chorus (JUNO-106 Chorus) (P.111)

Chorus

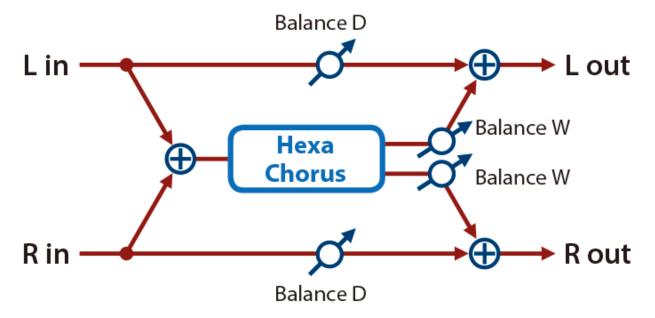
This is a stereo chorus. A filter is provided so that you can adjust the timbre of the chorus sound.



| Parameter | Value | Explanation |
|------------------|--|---|
| Туре | OFF, LPF, HPF | Filter type OFF: No filter is used LPF: Cuts the frequency range above the Cutoff Freq HPF: Cuts the frequency range below the Cutoff |
| Cutoff | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz] | Basic frequency of the filter |
| Pre Delay | 0.0–100 [ms] | Adjusts the delay time from the direct sound until the chorus sound is heard. |
| Rate Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| Rate | 0.05–10.00 [Hz] | Frequency of modulation |
| Rate Note | Note(P.168) | - |
| Depth | 0–127 | Depth of modulation |
| Phase | 0–180 [deg] | Spatial spread of the sound |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Balance | D100: 0W–D0: 100W | Volume balance between the direct sound (D) and the chorus sound (W) |
| Level | 0–127 | Output Level |

Hexa-Chorus

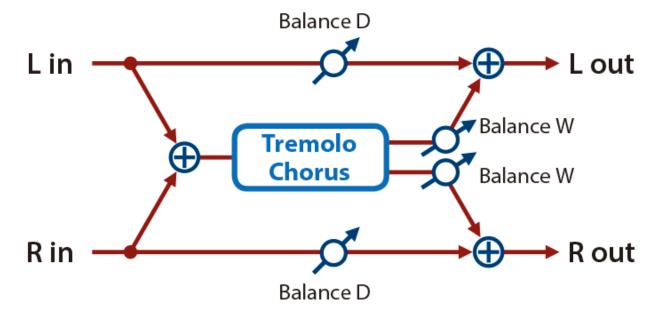
Uses a six-phase chorus (six layers of chorused sound) to give richness and spatial spread to the sound.



| Parameter | Value | Explanation |
|-------------------|-------------------|---|
| Pre Delay | 0.0-100 [ms] | Adjusts the delay time from the direct sound until the chorus sound is heard. |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Rate Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| Rate | 0.05-10.00 [Hz] | _ Frequency of modulation |
| Rate Note | Note(P.168) | |
| Depth | 0–127 | Depth of modulation |
| PreDly Dev | 0–20 | Adjusts the differences in Pre Delay between each chorus sound. |
| Depth Dev | -20-+20 | Adjusts the difference in modulation depth between each chorus sound. |
| | 0–20 | Adjusts the difference in stereo location between each chorus sound. |
| Pan Dev | | 0: All chorus sounds will be in the center. |
| | | 20: Each chorus sound will be spaced at 60 degree intervals relative to the center. |
| Balance | D100: 0W-D0: 100W | Volume balance between the direct sound (D) and the chorus sound (W) |
| Level | 0–127 | Output Level |

Trem Chorus (Tremolo Chorus)

This is a chorus effect with added Tremolo (cyclic modulation of volume).

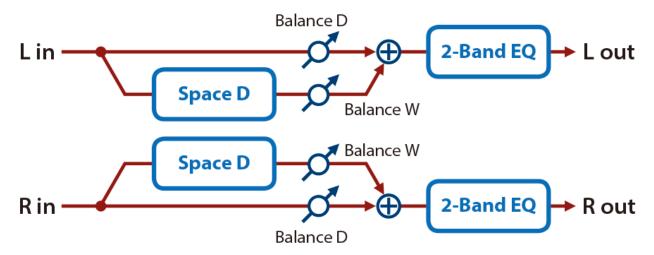


| Parameter | Value | Explanation |
|---------------------|-------------------|---|
| Pre Delay | 0.0-100 [ms] | Adjusts the delay time from the direct sound until the chorus sound is heard. |
| Cho Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| C.Rate | 0.05-10.00 [Hz] | Modulation frequency of the chorus effect |
| C.Rate Nt | Note(P.168) | |
| Cho Depth | 0–127 | Modulation depth of the chorus effect |
| Trm Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| T.Rate | 0.05-10.00 [Hz] | Modulation frequency of the tremolo effect |
| T.Rate Nt | Note(P.168) | - |
| Trm Separate | 0–127 | Depth of the tremolo effect |
| Trm Phase | 0–180 [deg] | Spread of the tremolo effect |
| Balance | D100: 0W-D0: 100W | Volume balance between the direct sound (D) and the tremolo chorus sound (W) |
| Level | 0–127 | Output Level |

Space-D

This is a multiple chorus that applies two-phase modulation in stereo.

It gives no impression of modulation, but produces a transparent chorus effect.

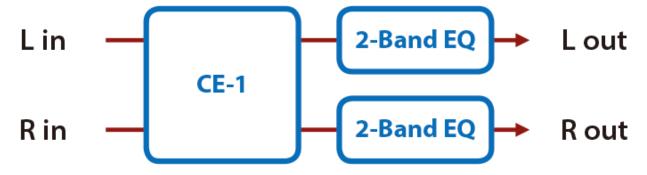


| Parameter | Value | Explanation |
|------------------|-------------------|---|
| Pre Delay | 0.0-100 [ms] | Adjusts the delay time from the direct sound until the chorus sound is heard. |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Rate Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| Rate Note | Note(P.168) | |
| Depth | 0–127 | Depth of modulation |
| Phase | 0–180 [deg] | Spatial spread of the sound |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Balance | D100: 0W-D0: 100W | Volume balance between the direct sound (D) and the chorus sound (W) |
| Level | 0–127 | Output Level |

CE-1 (Chorus)

This models the classic BOSS CE-1 chorus effect unit.

It provides a chorus sound with a distinctively analog warmth.



| Parameter | Value | Explanation |
|-----------|--------------|--|
| Intensity | 0–127 | Chorus depth |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

SDD-320 (DIMENSION D)

This models Roland's DIMENSION D (SDD-320).

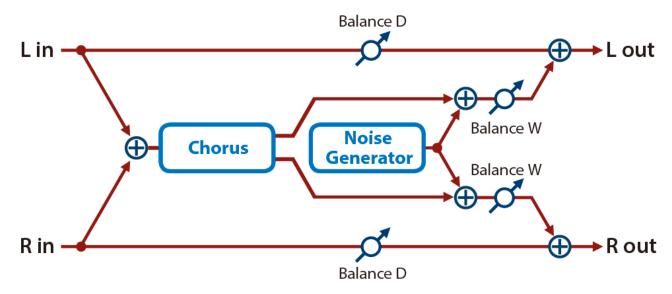
It provides a clear chorus sound.



| Parameter | Value | Explanation |
|-----------|---------------------------|--|
| Mode | 1, 2, 3, 4, 1+4, 2+4, 3+4 | Switches the mode. |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

JUNO Chorus (JUNO-106 Chorus)

This models the chorus effects of the Roland JUNO-106.



| Parameter | Value | Explanation |
|-----------|--------------------------|--|
| Mode | I, II, I+II, JX I, JX II | Type of Chorus |
| Mode | | I+II: The state in which two buttons are pressed simultaneously. |
| Noise Lv | 0–127 | Volume of the noise produced by chorus |
| Balance | D100: 0W-D0: 100W | Volume balance between the dry sound (D) and effect sound (W) |
| Level | 0–127 | Output Level |

Modulation Type

Ring Mod (Ring modulator) (P.113)

Tremolo(P.113)

Auto Pan (P.114)

Slicer(P.115)

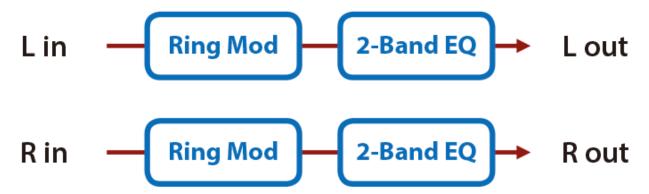
Rotary(P.115)

VK Rotary(**P.116**)

Ring Mod (Ring modulator)

This is an effect that applies amplitude modulation (AM) to the input signal, producing bell-like sounds.

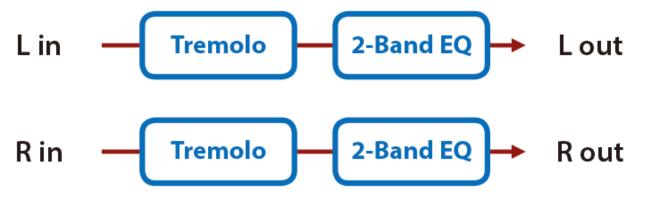
You can also change the modulation frequency in response to changes in the volume of the sound sent into the effect.



| Parameter | Value | Explanation |
|------------------|--------------|---|
| Frequency | 0–127 | Adjusts the frequency at which modulation is applied. |
| Sens | 0–127 | Adjusts the amount of frequency modulation applied. |
| | UP, DOWN | Determines whether the frequency modulation moves towards higher frequencies or lower |
| Polarity | | frequencies. |
| Polarity | | UP: The filter will change toward a higher frequency. |
| | | DOWN: The filter will change toward a lower frequency. |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Dolones | D100: 0W-D0: | Volume balance between the direct sound (D) and the effect sound (W) |
| Balance | 100W | |
| Level | 0–127 | Output Level |

Tremolo

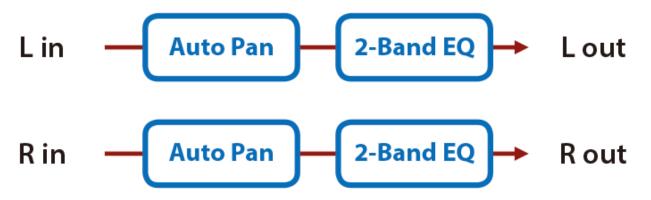
Cyclically changes the volume.



| Parameter | Value | Explanation |
|-----------|--------------------------------|--|
| | TRI, SQR, SIN, SAW1, SAW2, TRP | Modulation Wave |
| | | TRI: Triangle wave |
| | | SQR: Square wave |
| | | SIN: Sine wave |
| | | SAW1/2: Sawtooth wave |
| Mod Wave | | TRP: Trapezoidal wave |
| ou mare | | |
| | | SAW1 SAW2 |
| | | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Rate Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| Rate | 0.05-10.00 [Hz] | Frequency of the change |
| Rate Note | Note(P.168) | |
| Depth | 0–127 | Depth to which the effect is applied |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

Auto Pan

Cyclically modulates the stereo location of the sound.

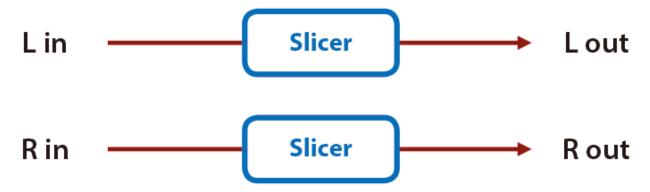


| Parameter | Value | Explanation |
|------------------|--------------------------------|--|
| | TRI, SQR, SIN, SAW1, SAW2, TRP | Modulation Wave |
| | | TRI: Triangle wave |
| | | SQR: Square wave |
| | | SIN: Sine wave |
| | | SAW1/2: Sawtooth wave |
| Mod Wave | | TRP: Trapezoidal wave |
| | | |
| | | SAW1 SAW2 |
| | | _/// NN\ |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Rate Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| Rate | 0.05–10.00 [Hz] | Frequency of the change |
| Rate Note | Note(P.168) | |
| Depth | 0–127 | Depth to which the effect is applied |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

Slicer

By applying successive cuts to the sound, this effect turns a conventional sound into a sound that appears to be played as a backing phrase.

This is especially effective when applied to sustain-type sounds.

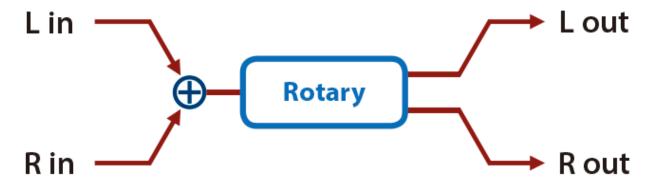


| Parameter | Value | Explanation |
|------------------|--------------------|---|
| Step 1-16 | 0–127 | Level at each step |
| Rate Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| Rate | 0.05-10.00 [Hz] | Rate at which the 16-step sequence will cycle |
| Rate Note | Note(P.168) | |
| Attack | 0–127 | Speed at which the level changes between steps |
| In Sync Sw | OFF, ON | Specifies whether an input note will cause the sequence to resume from the first step of the sequence (ON) or not (OFF) |
| InSyncThres | 0–127 | Volume at which an input note will be detected |
| Mode | LEGATO, SLASH | Sets the manner in which the volume changes as one step progresses to the next. LEGATO: The change in volume from one step's level to the next remains unaltered. If the level of a following step is the same as the one preceding it, there is no change in volume. SLASH: The level is momentarily set to 0 before progressing to the level of the next step. This change in volume occurs even if the level of the following step is the same as the preceding step. |
| Shuffle | 0–127 | Timing of volume changes in levels for even-numbered steps (step 2, step 4, step 6). The higher the value, the later the beat progresses. |
| Level | 0–127 | Output Level |

Rotary

This simulates a classic rotary speaker of the past.

Since the operation of the high-frequency and low-frequency rotors can be specified independently, the distinctive modulation can be reproduced realistically. This is most effective on organ patches.

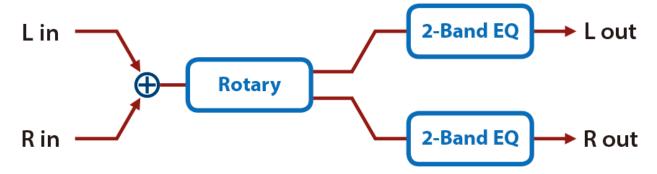


| Parameter | Value | Explanation |
|------------|------------|--|
| | SLOW, | Simultaneously switch the rotational speed of the low frequency rotor and high frequency rotor. |
| Speed | FAST | SLOW: Slows down the rotation to the Slow Rate. |
| | | FAST: Speeds up the rotation to the Fast Rate. |
| Wf Slow | 0.05-10.00 | Slow speed (SLOW) of the low frequency rotor |
| WI Slow | [Hz] | |
| Wf Fast | 0.05-10.00 | Fast speed (FAST) of the low frequency rotor |
| wrrast | [Hz] | |
| 14/6 AI | 0–15 | Adjusts the time it takes the low frequency rotor to reach the newly selected speed when switching |
| Wf Accel | | from fast to slow (or slow to fast) speed. Lower values will require longer times. |
| Wf Level | 0–127 | Volume of the low frequency rotor |
| Tw Slow | 0.05-10.00 | Settings of the high frequency rotor |
| I W SIOW | [Hz] | The parameters are the same as for the low frequency rotor. |
| Tue Foot | 0.05-10.00 | |
| Tw Fast | [Hz] | |
| Tw Accel | 0–15 | |
| Tw Level | 0–127 | |
| Separation | 0-127 | Spatial dispersion of the sound |
| Level | 0–127 | Output Level |

VK Rotary

This type provides modified response for the rotary speaker, with the low end boosted further.

This effect features the same specifications as the VK-7's built-in rotary speaker.



| Parameter | Value | Explanation |
|-----------|--------------------|--|
| Speed | SLOW, FAST | Rotational speed of the rotating speaker SLOW: Slow FAST: Fast |
| Brake | OFF, ON | Switches the rotation of the rotary speaker. When this is turned on, the rotation will gradually stop. When it is turned off, the rotation will gradually resume. |
| Wf Slow | 0.05–10.00 [Hz] | Low-speed rotation speed of the woofer |
| Wf Fast | 0.05-10.00 [Hz] | High-speed rotation speed of the woofer |
| Wf Trs Up | 0–127 | Adjusts the rate at which the woofer rotation speeds up when the rotation is switched from Slow to Fast. |
| Wf Trs Dw | 0–127 | Adjusts the rate at which the woofer rotation speeds up when the rotation is switched from Fast to Slow. |
| Wf Level | 0–127 | Volume of the woofer |
| Tw Slow | 0.05–10.00 [Hz] | Settings of the tweeter The parameters are the same as for the woofer. |
| Tw Fast | 0.05–10.00 [Hz] | |
| Tw Trs Up | 0–127 | - |
| Tw Trs Dw | 0–127 | - |
| Tw Level | 0–127 | |
| Spread | 0–10 | Sets the rotary speaker stereo image. |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |

| Parameter | Value | Explanation | |
|------------------|---------|---|--|
| Level | 0–127 | Output Level | |
| OD Switch | OFF, ON | Overdrive on/off | |
| OD Gain | 0–127 | Overdrive input level | |
| OD Gain | | Higher values will increase the distortion. | |
| OD Drive | 0–127 | 27 Degree of distortion | |
| OD Level | 0–127 | Volume of the overdrive | |

Drive / Amp

Overdrive(P.118)

Distortion(P.118)

T-Scream(P.119)

Fuzz(P.119)

Fattener (Tone Fattener) (P.119)

HMS Distort (HMS Distortion) (P.120)

Saturator(P.120)

W Saturator (Warm Saturator) (P.121)

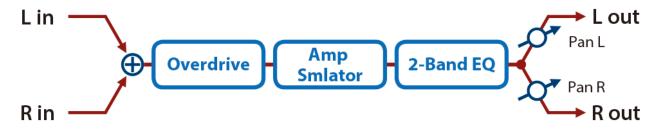
Gt Amp Sim (Guitar Amp Simulator) (P.122)

EP Amp Sim (RD EP Amp Simulator) (P.124)

Speaker Sim (Speaker Simulator) (P.124)

Overdrive

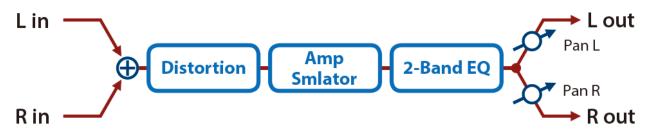
This is an overdrive that provides heavy distortion.



| Parameter | Value | Explanation |
|------------|-----------------------------------|--|
| Drive | 0–127 | Degree of distortion |
| Drive | | Also changes the volume. |
| Tone | 0–127 | Sound quality of the Overdrive effect |
| Amp Switch | OFF, ON | Turns the Amp Simulator on/off. |
| | SMALL, BUILT-IN, 2-STACK, 3-STACK | Type of guitar amp |
| | | SMALL: Small amp |
| AmpType | | BUILT-IN: Single-unit type amp |
| | | 2-STACK: Large double stack amp |
| | | 3-STACK: Large triple stack amp |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Pan | L64-63R | Stereo location of the output sound |
| Level | 0–127 | Output Level |

Distortion

Produces a more intense distortion than Overdrive.



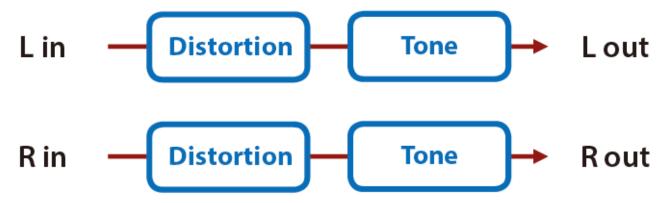
| Parameter | Value | Explanation |
|-----------|-------|---|
| Drive | 0–127 | Degree of distortion Also changes the volume. |

| Parameter | Value | Explanation |
|------------|-----------------------------------|--|
| Tone | 0–127 | Sound quality of the Overdrive effect |
| Amp Switch | OFF, ON | Turns the Amp Simulator on/off. |
| | SMALL, BUILT-IN, 2-STACK, 3-STACK | Type of guitar amp |
| | | SMALL: Small amp |
| AmpType | | BUILT-IN: Single-unit type amp |
| | | 2-STACK: Large double stack amp |
| | | 3-STACK: Large triple stack amp |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Pan | L64-63R | Stereo location of the output sound |
| Level | 0–127 | Output Level |

T-Scream

This models a classic analog overdrive.

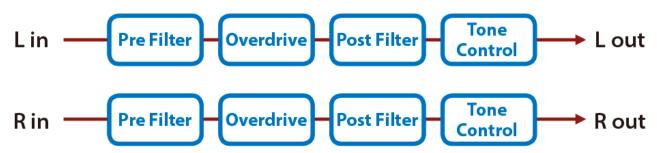
It is distinctive in adding an appropriate amount of overtones without muddying the sound.



| Parameter | Value | Explanation |
|------------|-------|---|
| Distortion | 0–127 | Degree of distortion Also changes the volume. |
| Tone | 0–127 | Tonal character of the T-scream |
| Level | 0–127 | Output Level |

Fuzz

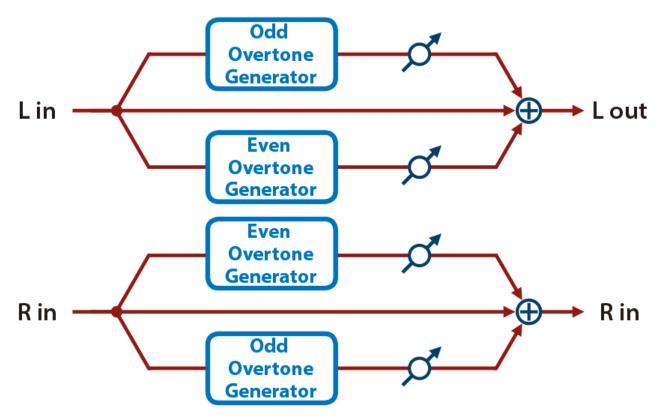
Adds overtones and intensely distorts the sound.



| Parameter | Value | Explanation |
|-----------|-------|--|
| Drive | 0–127 | Adjusts the depth of distortion. This also changes the volume. |
| Tone | 0–100 | Sound quality of the Fuzz effect |
| Level | 0–127 | Output Level |

Fattener (Tone Fattener)

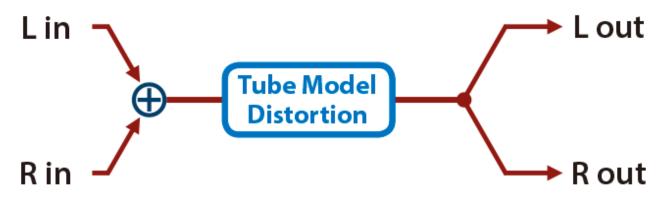
This effect applies distinctive distortion, adding overtones to give more depth to the sound.



| Parameter | Value | Explanation |
|------------|-----------|--|
| Odd Level | 0–400 [%] | Raising the value adds odd-order overtones. |
| Even Level | 0-400 [%] | Raising the value adds even-order overtones. |
| Level | 0-127 | Output Level |

HMS Distort (HMS Distortion)

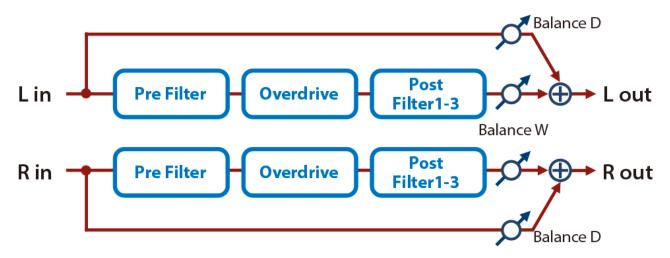
This is a distortion-type effect that models the vacuum tube amp section of a rotary speaker of the past.



| Parameter | Value | Explanation |
|-----------|-------|------------------------|
| Dist | 0–127 | Strength of distortion |
| Level | 0–127 | Output Level |

Saturator

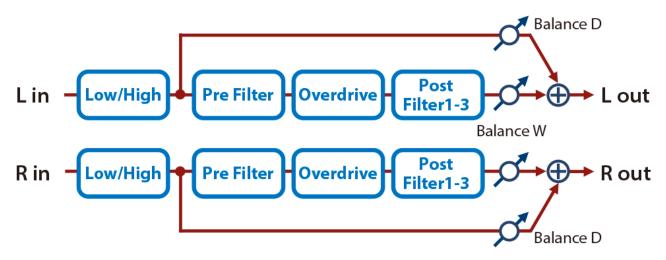
This effect combines overdrive and filter.



| Parameter | Value | Explanation | |
|-------------|---|--|--|
| | THRU, LPF, HPF, LSV, HSV | Type of filter that precedes the distortion processing | |
| | | THRU: No filter is applied | |
| Pre Type | | LPF: A filter that passes the sound below the specified frequency | |
| i ie iype | | HPF: A filter that passes the sound above the specified frequency | |
| | | LSV: A filter that boosts/cuts the sound below the specified frequency | |
| | | HSV: A filter that boosts/cuts the sound above the specified frequency | |
| Pre Freq | 20–16000 [Hz] | Frequency at which the pre-distortion filter operates | |
| Pre Gain | -24.0-+24.0 [dB] | For the LSV/HSV types, the amount of boost/cut | |
| Drive | 0.0-48.0 [dB] | Strength of distortion | |
| Post1 Type | THRU, LPF, HPF, LSV, HSV | Type of filter 1 which follows the distortion processing | |
| Post1Frq | 20-16000 [Hz] | Frequency at which post-distortion filter 1 operates | |
| Post1Gain | -24.0-+24.0 [dB] | For the LSV/HSV types, the amount of boost/cut | |
| Post2 Type | THRU, LPF, HPF, LSV, HSV | Type of filter 2 which follows the distortion processing | |
| Post2Frq | 20-16000 [Hz] | Frequency at which post-distortion filter 2 operates | |
| Post2Gain | -24.0-+24.0 [dB] | For the LSV/HSV types, the amount of boost/cut | |
| | THRU, LPF, HPF, BPF, PKG | Type of filter 3 which follows the distortion processing | |
| | | THRU: No filter is applied | |
| Post3 Type | | LPF: A filter that passes the sound below the specified frequency | |
| 1 osts Type | | HPF: A filter that passes the sound above the specified frequency | |
| | | BPF: A filter that passes only the specified frequency | |
| | | PKG: A filter that boosts/cuts the specified frequency | |
| Post3Frq | 20–16000 [Hz] | Frequency at which post-distortion filter 3 operates | |
| Post3Gain | -24.0-+24.0 [dB] | For the PKG type, the amount of boost/cut | |
| Post3 Q | 0.5–16.0 | Width of the frequency range affected by the filter | |
| Sense | -60.0–0.0 [dB] | Adjust this value so that the sound is not made louder when distortion is applied. | |
| PostGain | -48.0 +12.0 [dB] | Gain following distortion processing | |
| Balance | D100: 0W–D0: 100W Volume balance between the dry sound (D) and effect sound (W) | | |
| Level | 0–127 | Output Level | |

W Saturator (Warm Saturator)

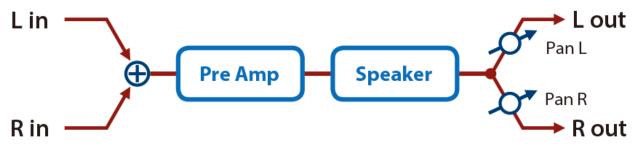
This is a variety of saturator, and is distinctive for its warmer sound.



| Parameter | Value | Explanation | |
|-------------|--------------------------|---|--|
| LowFrea | 20-16000 [Hz] | Input filter (low range) | |
| Lowrred | | Boosts/cuts the sound below the specified frequency. | |
| LowGain | -24.0-+24.0 [dB] | Input filter (low range) | |
| LOWGaiii | | Amount of boost/cut | |
| | THRU, -12dB, -24dB | Amount of attenuation per octave | |
| Hi Slope | | THRU: No attenuation | |
| | | -12 dB: Gentle | |
| | | -24 dB: Steep | |
| Hi Freq | 20-16000 [Hz] | Input filter (high range) | |
| • | TUDIL LDE LIDE LOVILION | Boosts/cuts the sound above the specified frequency. | |
| | THRU, LPF, HPF, LSV, HSV | Types of filter that precedes the distortion processing | |
| | | THRU: No filter is applied LPF: A filter that passes the sound below the specified frequency | |
| Pre1 Type | | HPF: A filter that passes the sound above the specified frequency | |
| | | LSV: A filter that passes the sound above the specified frequency | |
| | | HSV: A filter that boosts/cuts the sound above the specified frequency | |
| Pre1Freq | 20-16000 [Hz] | Frequency at which the pre-distortion filter operates | |
| Pre1Gain | -24.0-+24.0 [dB] | For the LSV/HSV types, the amount of boost/cut | |
| Drive | 0.0–48.0 [dB] | Strength of distortion | |
| Post1 Type | THRU, LPF, HPF, LSV, HSV | Type of filter 1 which follows the distortion processing | |
| Post1Frq | 20–16000 [Hz] | Frequency at which post-distortion filter 1 operates | |
| Post1Gain | -24.0-+24.0 [dB] | For the LSV/HSV types, the amount of boost/cut | |
| Post2 Type | THRU, LPF, HPF, LSV, HSV | Type of filter 2 which follows the distortion processing | |
| Post2Frq | 20-16000 [Hz] | Frequency at which post-distortion filter 2 operates | |
| Post2Gain | -24.0-+24.0 [dB] | For the LSV/HSV types, the amount of boost/cut | |
| | THRU, LPF, HPF, BPF, PKG | Type of filter 3 which follows the distortion processing | |
| | | THRU: No filter is applied | |
| Post3 Type | | LPF: A filter that passes the sound below the specified frequency | |
| . osts Type | | HPF: A filter that passes the sound above the specified frequency | |
| | | BPF: A filter that passes only the specified frequency | |
| | | PKG: A filter that boosts/cuts the specified frequency | |
| Post3Frq | 20–16000 [Hz] | Frequency at which post-distortion filter 3 operates | |
| Post3Gain | -24.0-+24.0 [dB] | For the PKG type, the amount of boost/cut | |
| Post3 Q | 0.5–16.0 | Width of the frequency range affected by the filter | |
| Sense | -60.0-0.0 [dB] | Adjust this value so that the sound is not made louder when distortion is applied. | |
| PostGain | -48.0-+12.0 [dB] | Gain following distortion processing | |
| Balance | D100: 0W-D0: 100W | Volume balance between the dry sound (D) and effect sound (W) | |
| Level | 0–127 | Output Level | |

Gt Amp Sim (Guitar Amp Simulator)

This is an effect that simulates the sound of a guitar amplifier.



| Parameter | Value | Explanation | | | |
|---------------|--|---|---|---------------------------------------|--|
| Pre Amp Sw | OFF, ON | Turns the amp switch on/off. | | | |
| | JC-120 | This models the sound of th | e Roland JC-120. | | |
| | CLEAN TWIN | This models a Fender Twin | Reverb. | | |
| | MATCH DRIVE | This models the sound input to left input on a Matchless D/C-30. | | | |
| | WATCHDINE | | be amp widely used in styles from blues rock and | fusion. | |
| | BG LEAD | This models the lead sound of the MESA/ Boogie combo amp. | | | |
| | | The sound of a tube amp typical of the late '70s to '80s. | | | |
| | MS1959I This models the sound input to Input I on a Marshall 1959. | | | | |
| | MCAOFOII | This is a trebly sound suited | | | |
| АТур | MS1959II | • | it to Input II on a Marshall 1959. | 1 11 | |
| 71 | MS1959I+II | | puts I and II of the guitar amp in parallel, creating | a sound with a | |
| | SLDN LEAD | stronger low end than I. | 100 This is the trusted sound of the simbling | | |
| | METAL 5150 | This models the lead chann | 100. This is the typical sound of the eighties. | | |
| | METAL LEAD | | t is ideal for performances of heavy riffs. | | |
| | OD-1 | | ne BOSS OD-1. This produces sweet, mild distortion | | |
| | OD-1 | | ive sound of the BOSS OD-2. | · · · · · · · · · · · · · · · · · · · | |
| | DISTORTION | This gives a basic, traditiona | | | |
| | FUZZ | A fuzz sound with rich harm | | | |
| Drive | 0–127 | Volume and amount of dist | | | |
| Master | 0-127 | Volume of the entire pre-an | | | |
| Muster | LOW, MIDDLE, | Amount of pre-amp distorti | | | |
| Gain | HIGH | Amount of pre-ump distortion | | | |
| Bass | 0–127 | Tone of the bass/mid/treble frequency range | | | |
| Middle | 0–127 | | | | |
| Treble | 0–127 | | | | |
| Presence | 0–127 | Tone for the ultra-high freq | uency range | | |
| | OFF, ON | Turning this "On" produces a sharper and brighter sound. | | | |
| Bright | | * This parameter applies to the "JC-120," "CLEAN TWIN," "MATCH DRIVE," and "BG LEAD" Pre Amp Types. | | | |
| Speaker Sw | OFF, ON | Selects whether the sound | will be sent through the speaker simulation (ON) o | or not (OFF) | |
| | | Cabinet | Diameter (in inches) and number of the | Microphone | |
| | | | speaker | | |
| | SMALL 1 | small open-back enclosure | 10 | dynamic | |
| | SMALL 2 | small open-back enclosure | 10 | dynamic | |
| | MIDDLE | open back enclosure | 12 x 1 | dynamic | |
| | JC-120 | open back enclosure | 12 x 2 | dynamic | |
| | BUILT-IN 1 | open back enclosure | 12 x 2 | dynamic | |
| | BUILT-IN 2 | open back enclosure | 12 x 2 | condenser | |
| STyp | BUILT-IN 3 | open back enclosure | 12 x 2 | condenser | |
| | BUILT-IN 4 | open back enclosure | 12 x 2 | condenser | |
| | BUILT-IN 5 | open back enclosure | 12 x 2 | condenser | |
| | BG STACK 1 | sealed enclosure | 12 x 2 | condenser | |
| | BG STACK 2 | large sealed enclosure | 12 x 2 | condenser | |
| | MS STACK 1 | large sealed enclosure | 12 x 4 | condenser | |
| | MS STACK 2 METAL STACK | large sealed enclosure | 12 x 4 | condenser | |
| | 2-STACK | large double stack large double stack | 12 x 4 12 x 4 | condenser condenser | |
| | 3-STACK | large triple stack | 12 x 4 | condenser | |
| | 2-21464 | iarye tripie stack | 14 / 7 | COTIGETISES | |

| Parameter | Value | Explanation |
|-------------|---------|---|
| | 1–3 | Adjusts the location of the microphone that is recording the sound of the speaker. |
| Mic Setting | | This can be adjusted in three steps, with the microphone becoming more distant in the order |
| | | of 1, 2, and 3. |
| Mic Level | 0–127 | Volume of the microphone |
| Direct | 0–127 | Volume of the direct sound |
| Level | | |
| Pan | L64-63R | Stereo location of the output sound |
| Level | 0–127 | Output Level |

EP Amp Sim (RD EP Amp Simulator)

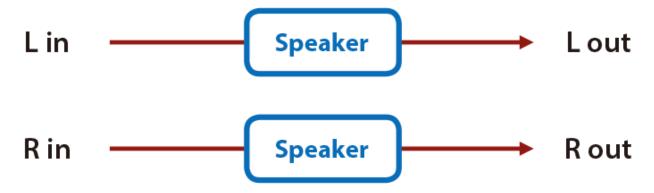
This is an effect that was developed for the RD series SuperNatural E.Piano.



| Parameter | Value | Explanation | |
|------------|-----------------------------|---|--|
| Bass | -50-+50 | Amount of low-frequency boost/cut | |
| Treble | -50-+50 | Amount of high-frequency boost/cut | |
| Tremolo Sw | OFF, ON | Tremolo on/off | |
| | OLDCASE MO | A standard electric piano sound of the early 70s (mono) | |
| | OLDCASE ST | A standard electric piano sound of the early 70s (stereo) | |
| Type | NEWCASE | A standard electric piano sound of the late 70s and early 80s | |
| | DYNO | A classic modified electric piano | |
| | WURLY | A classic electric piano of the '60s | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. | |
| Speed Sync | | Tempo (Pattern) | |
| | | Tempo (System)(P.76) | |
| Speed | 0.05–10.00 [Hz] | _ Rate of the tremolo effect | |
| Speed Nt | Note(P.168) | | |
| Depth | 0–127 | Depth of the tremolo effect | |
| Shape | 0–20 | Adjusts the waveform of the tremolo. | |
| AMP | OFF, ON | Turns the speaker and distortion on/off | |
| | LINE, OLD, NEW, WURLY, TWIN | Type of speaker | |
| Speaker | | If LINE is selected, the sound will not be sent through the speaker simulation. | |
| | 0–127 | Degree of distortion | |
| Drive | 0-127 | Also changes the volume. | |
| Level | 0–127 | Output Level | |

Speaker Sim (Speaker Simulator)

Simulates the speaker type and mic settings used to record the speaker sound.



| Parameter | Value | Explanation | | |
|-----------|------------|---|---------|------------|
| | | Cabinet | Speaker | Microphone |
| | SMALL 1 | small open-back enclosure | 10 | dynamic |
| | SMALL 2 | small open-back enclosure | 10 | dynamic |
| | MIDDLE | open back enclosure | 12 x 1 | dynamic |
| | JC-120 | open back enclosure | 12 x 2 | dynamic |
| | BUILT-IN 1 | open back enclosure | 12 x 2 | dynamic |
| | BUILT-IN 2 | open back enclosure | 12 x 2 | condenser |
| | BUILT-IN 3 | open back enclosure | 12 x 2 | condenser |
| Type | BUILT-IN 4 | open back enclosure | 12 x 2 | condenser |
| Type | BUILT-IN 5 | open back enclosure | 12 x 2 | condenser |
| | BG STACK 1 | sealed enclosure | 12 x 2 | condenser |
| | BG STACK 2 | large sealed enclosure | 12 x 2 | condenser |
| | MS STACK 1 | large sealed enclosure | 12 x 4 | condenser |
| | MS STACK 2 | large sealed enclosure | 12 x 4 | condenser |
| | METAL | large double stack | 12 x 4 | condenser |
| | STACK | | | |
| | 2-STACK | large double stack | 12 x 4 | condenser |
| | 3-STACK | large triple stack | 12 x 4 | condenser |
| Mic | 1–3 | Adjusts the location of the microphone that is rec | | |
| Setting | | This can be adjusted in three steps, with the microphone becoming more distant in the order of 1, 2 | | |
| Setting | | and 3. | | |
| Mic Level | 0–127 | Volume of the microphone | | |
| Direct Lv | 0–127 | Volume of the direct sound | | |
| Level | 0–127 | Output Level | | |

Comp / Limiter

Compressor(P.126)

M/S Comp (Mid-Side Compressor) (P.126)

Limiter (P.127)

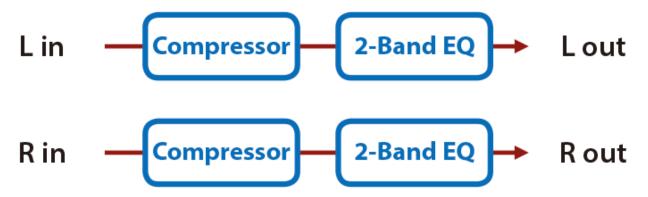
Sustainer (P.127)

Transient(P.128)

Gate(P.128)

Compressor

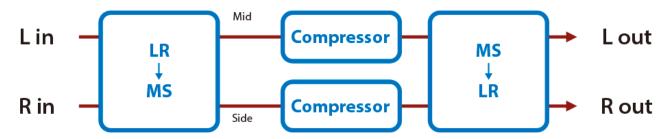
Flattens out high levels and boosts low levels, smoothing out fluctuations in volume.



| Parameter | Value | Explanation |
|------------------|---------------------------|---|
| Attack | 0–124 | Sets the speed at which compression starts |
| Release | 0–124 | Adjusts the time after the signal volume falls below the Threshold Level until compression is |
| Hereuse | | no longer applied. |
| Threshold | -60–0 [dB] | Adjusts the volume at which compression begins |
| | 0-30 [dB] | This is a function that smooths the onset of compression from the uncompressed state; it |
| Knee | | gradually applies compression starting earlier than Threshold. |
| | | Higher values produce a smoother transition. |
| Ratio | 1: 1, 1.5: 1, 2: 1, 4: 1, | Compression ratio |
| Ratio | 16: 1, INF: 1 | |
| Post Gain | 0-+18 [dB] | Level of the output sound |
| Level | 0–127 | Output Level |

M/S Comp (Mid-Side Compressor)

This effect allows the left/right signals that have similar phase to be adjusted to a different sense of volume than the left/right signals that have different phase.

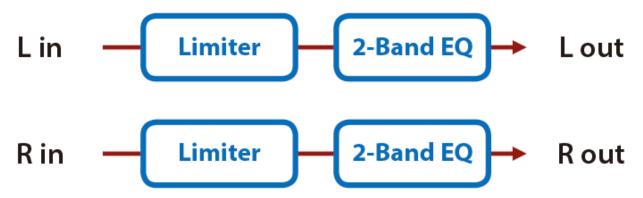


| Parameter | Value | Explanation | |
|-----------|------------|--|--|
| M Comp | OFF, ON | Switches whether to adjust the sense of volume for left/right input signals whose phase is | |
| Sw | | similar (in phase). | |
| M Attack | 0–124 | Sets the speed at which compression starts | |
| M Release | 0–124 | Adjusts the time after the signal volume falls below the M Thres Level until compression is no | |
| minerease | | longer applied. | |
| M Thres | -60–0 [dB] | Adjusts the volume at which compression begins | |
| | | · | |

| Parameter | Value | Explanation | |
|-----------|--|---|--|
| M Knee | 0-30 [dB] | This is a function that smooths the onset of compression from the uncompressed state; it gradually applies compression starting earlier than M Thres. Higher values produce a smoother transition. | |
| M Ratio | 1: 1, 1.5: 1, 2: 1, 4: 1, 16: 1, INF: 1 | Compression ratio | |
| M Gain | 0-+18 [dB] | Level of the output sound | |
| S Comp Sw | OFF, ON | Switches whether to adjust the sense of volume for left/right input signals whose phase is distant (opposite phase). | |
| S Attack | 0–124 | Sets the speed at which compression starts | |
| S Release | 0–124 | Adjusts the time after the signal volume falls below the S Thres Level until compression is no longer applied. | |
| S Thres | -60-0 [dB] | Adjusts the volume at which compression begins | |
| S Knee | 0-30 [dB] | This is a function that smooths the onset of compression from the uncompressed state; it gradually applies compression starting earlier than S Thres. Higher values produce a smoother transition. | |
| S Ratio | 1: 1, 1.5: 1, 2: 1, 4: 1, 16: 1, INF: 1 | Compression ratio | |
| S Gain | 0-+18 [dB] | Level of the output sound | |
| Level | 0–127 | Output Level | |

Limiter

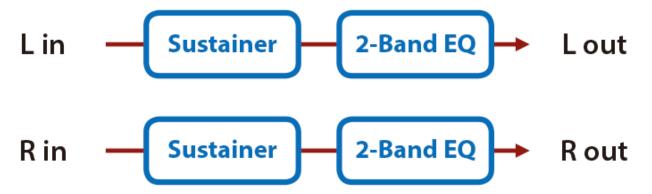
Compresses signals that exceed a specified volume level, preventing distortion from occurring.



| Parameter | Value | Explanation |
|------------------|-------------------------------|--|
| Release | 0–127 | Adjusts the time after the signal volume falls below the Threshold Level until compression is no longer applied. |
| Threshold | 0–127 | Adjusts the volume at which compression begins |
| Ratio | 1.5: 1, 2: 1, 4: 1, 100: 1 | Compression ratio |
| Post Gain | 0-+18 [dB] | Level of the output sound |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

Sustainer

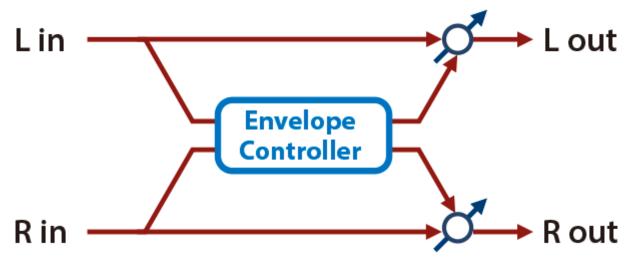
By compressing loud input and boosting low input, this effect keeps the volume consistent to produce a sustain effect without distortion.



| Parameter | Value | Explanation |
|------------------|--------------|--|
| Sustain | 0–127 | Adjusts the range in which a low input signal is boosted to a consistent volume. |
| Justani | | Higher values produce longer sustain. |
| Attack | 0–127 | Time until the volume is compressed |
| Release | 0–127 | Time until compression is removed |
| Post Gain | -15-+15 [dB] | Level of the output sound |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

Transient

This effect lets you control the way in which the sound attacks and decays.

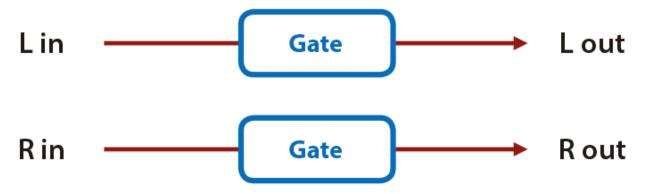


| Parameter | Value | Explanation | |
|-----------------|----------------|---|--|
| Attack | -50-+50 | Character of the attack. Higher values make the attack more aggressive; lower values make the attack milder. | |
| Release | -50-+50 | Character of the decay. Higher values make the sound linger; lower values make the sound cutoff quickly. | |
| Out Gain | -24-+12 [dB] | Output gain | |
| Sens | LOW, MID, HIGH | Quickness with which the attack is detected | |
| Level | 0–127 | Output Level | |

Gate

Cuts the reverb's delay according to the volume of the sound sent into the effect.

Use this when you want to create an artificial-sounding decrease in the reverb's decay.



| Parameter | Value | Explanation | |
|-----------|----------------------|---|--|
| Threshold | 0–127 | Volume level at which the gate begins to close | |
| Mode | GATE, DUCK | Type of gate GATE: The gate will close when the volume of the original sound decreases, cutting the original sound. DUCK (Duking): The gate will close when the volume of the original sound increases, cutting the original sound. | |
| Attack | 0–127 | Adjusts the time it takes for the gate to fully open after being triggered. | |
| Hold | 0–127 | Adjusts the time it takes for the gate to start closing after the source sound falls beneath the Threshold. | |
| Release | 0–127 | Adjusts the time it takes the gate to fully close after the hold time. | |
| Balance | D100: 0W-D0: 100W | Volume balance between the direct sound (D) and the effect sound (W) | |
| Level | 0–127 | Output Level | |

Delay Type

Delay(P.130)

Mod Delay (Modulation Delay) (P.131)

2Tap PanDly (2 Tap Pan Delay) (P.133)

3Tap PanDly (3 Tap Pan Delay) (P.134)

4Tap PanDly (4 Tap Pan Delay)(P.135)

MultiTapDly (Multi Tap Delay) (P.136)

Reverse Dly (Reverse Delay) (P.137)

TimeCtrlDly (Time Control Delay) (P.138)

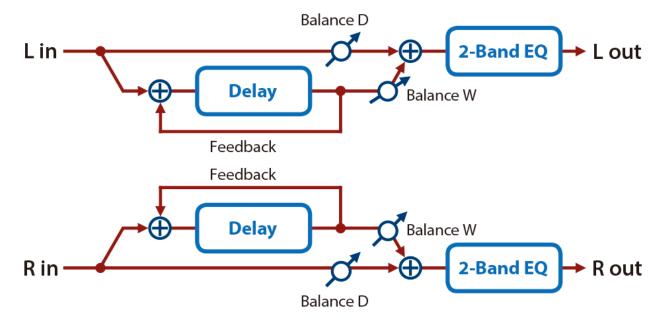
Tape Echo(P.139)

M/S Delay (Mid-Side Delay) (P.140)

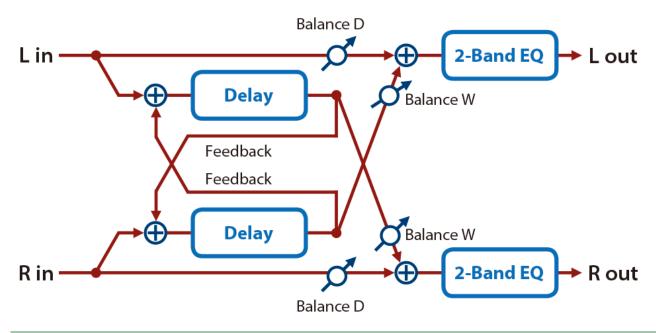
Delay

This is a stereo delay.

When Feedback Mode is NORMAL:



When Feedback Mode is CROSS:

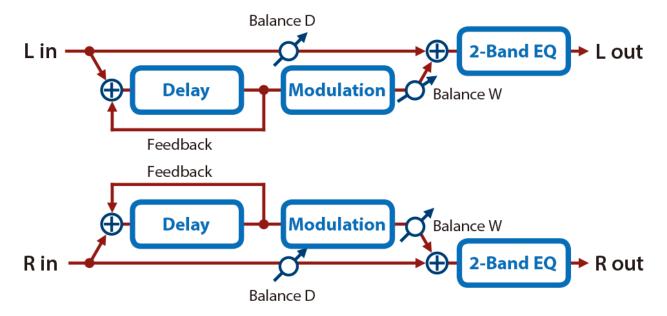


| Parameter | Value | Explanation |
|------------------|--|---|
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Dly L Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| DL. Time | 1–1300 | _ Adjusts the time until the left delay sound is heard. |
| DLTime Nt | Note(P.168) | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Dly R Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| DR. Time | 1–1300 | _ Adjusts the time until the right delay sound is heard. |
| DRTime | Note(P.168) | |
| Nt | | |
| Phase L | NORMAL, INVERSE | Phase of left and right delay sound |
| Phase R | NORMAL, INVERSE | NORMAL: Non-inverted |
| riiase n | | INVERT: Inverted |
| Fbk Mode | NORMAL, CROSS | Selects the way in which delay sound is fed back into the effect. (See |
| T DR MOGE | | the figures above.) |
| | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the |
| Feedback | | effect. |
| | | Negative (-) settings will invert the phase. |
| | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, | Adjusts the frequency above which sound fed back to the effect is |
| HF Damp | 1600, 2000, 2500, 3150, 4000, 5000, 6300, | filtered out. If you don't want to filter out any high frequencies, set |
| | 8000, BYPASS [Hz] | this parameter to BYPASS. |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Balance | D100: 0W–D0: 100W | Volume balance between the direct sound (D) and the delay sound |
| Dalance | | (W) |
| Level | 0–127 | Output Level |

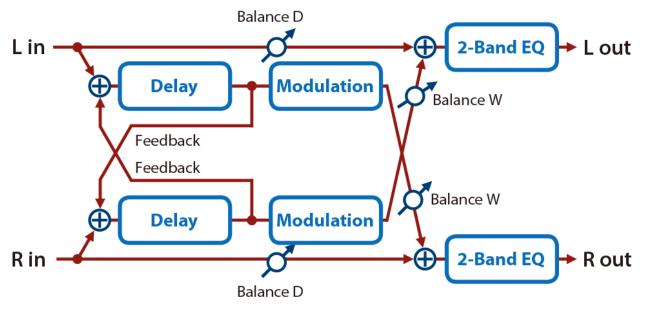
Mod Delay (Modulation Delay)

Adds modulation to the delayed sound.

When Feedback Mode is NORMAL:



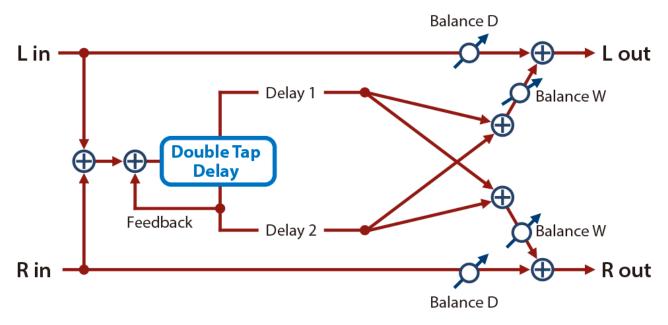
When Feedback Mode is CROSS:



| Para | | |
|------|-------------|--|
| met | Value | Explanation |
| er | | |
| Dly | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| L | | Tempo (Pattern) |
| Sync | | Tempo (System)(P.76) |
| DL. | 1–1300 | Adjusts the time until the left delay sound is heard. |
| Tim | | |
| e | | _ |
| DLTi | Note(P.168) | _ |
| me | | |
| Nt | | |
| Dly | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| R | | Tempo (Pattern) |
| Sync | | Tempo (System)(P.76) |
| DR. | 1–1300 | Adjusts the time until the right delay sound is heard. |
| Tim | | |
| e | | |

| Para | | |
|-------------|---|--|
| met | Value | Explanation |
| er | value | Explanation |
| DRTi | Note(P.168) | - |
| me | | |
| Nt | | |
| Fbk | NORMAL, CROSS | Selects the way in which delay sound is fed back into the effect. (See the |
| Mod | | figures above.) |
| e | | |
| Feed | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the |
| back | | effect. |
| | | Negative (-) settings will invert the phase. |
| HF | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, | Adjusts the frequency above which sound fed back to the effect is |
| Dam | 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000, | filtered out. If you don't want to filter out any high frequencies, set this |
| р | BYPASS [Hz] | parameter to BYPASS. |
| Rate | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Sync | | Tempo (Pattern) |
| • | 0.05 40.00 [1]] | Tempo (System)(P.76) |
| | 0.05–10.00 [Hz] | _ Frequency of modulation |
| Rate | Note(P.168) | |
| Note | 0.407 | |
| | 0–127 | Depth of modulation |
| h | 0.100[] | |
| | 0–180 [deg] | Spatial spread of the sound |
| e | 15 .15[40] | Amount of boot/sut for the law from your sures |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| | 15 + 15 [dD] | Amount of boost/sut for the high frequency range |
| Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Bala | D100: 0W-D0: 100W | Volume balance between the direct sound (D) and the delay sound (W) |
| nce | D100. 000-D0. 10000 | volume balance between the direct sound (b) and the delay sound (W) |
| | 0–127 | Output Level |
| I | 0 127 | output 2010. |
| | | |

2Tap PanDly (2 Tap Pan Delay)

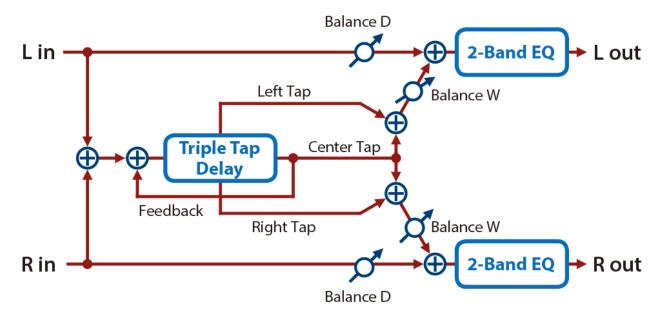


| Parameter | Value | Explanation |
|-------------------|-------------|---|
| Delay Sync | OFF, ON | If this is ON, the delay synchronizes with the tempo. |
| D. Time | 1–2600 | Adjusts the time until the second delay sound is heard. |
| (ms) | | _ |
| D.Time | Note(P.168) | |
| (Nt) | | |

| Parameter | Value | Explanation |
|-----------|--|---|
| Delay Fbk | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| Dly HF | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000, BYPASS [Hz] | Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any high frequencies, set this parameter to BYPASS. |
| Dly1 Pan | L64-63R | Adjusts the stereo location of delay 1. |
| Dly2 Pan | L64-63R | Adjusts the stereo location of delay 2. |
| Dly1 Lv | 0–127 | Adjusts the volume of delay 1. |
| Dly2 Lv | 0–127 | Adjusts the volume of delay 2. |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Balance | D100: 0W–D0: 100W | Adjusts the volume balance between the sound that is sent through the delay (W) and the sound that is not sent through the delay (D). |
| Level | 0–127 | Output Level |

3Tap PanDly (3 Tap Pan Delay)

Produces three delay sounds; center, left and right.

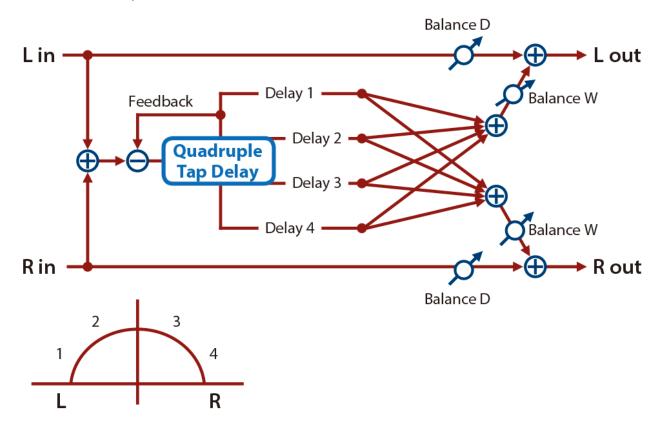


| Value | Explanation |
|--|---|
| OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| | Tempo (Pattern) |
| | Tempo (System)(P.76) |
| 1–2600 | _ Adjusts the time until the left delay sound is heard. |
| Note(P.168) | |
| OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| | Tempo (Pattern) |
| | Tempo (System)(P.76) |
| 1–2600 | Adjusts the time until the right delay sound is heard. |
| Note(P.168) | |
| OFF ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| | Tempo (Pattern) |
| | Tempo (System)(P.76) |
| 1–2600 | Adjusts the time until the center delay sound is heard. |
| Note(P.168) | |
| -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the |
| | effect. |
| | Negative (-) settings will invert the phase. |
| 200, 250, 315, 400, 500, 630, 800, 1000, 1250, | Adjusts the frequency above which sound fed back to the effect is |
| 1600, 2000, 2500, 3150, 4000, 5000, 6300, | filtered out. If you don't want to filter out any high frequencies, set |
| 8000, BYPASS [Hz] | this parameter to BYPASS. |
| | OFF, ON 1–2600 Note(P.168) OFF, ON 1–2600 Note(P.168) OFF、ON 1–2600 Note(P.168) 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, |

| Parameter | Value | Explanation |
|------------------|-----------------|---|
| Left Lv | 0–127 | Volume of each delay sound |
| Right Lv | 0–127 | |
| Center Lv | 0–127 | |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Balance | D100:0W~D0:100W | Volume balance between the direct sound (D) and the delay sound (W) |
| Level | 0–127 | Output Level |

4Tap PanDly (4 Tap Pan Delay)

This effect has four delays.



| Parameter | Value | Explanation |
|--------------|-------------|---|
| Dly1 Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| D1.Time | 1–2600 | Adjusts the time from the original sound until delay 1 sounds is |
| D1Time | Note(P.168) | heard. |
| Nt | | |
| Dly2 Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| D2.Time | 1–2600 | Adjusts the time from the original sound until delay 2 sounds is |
| D2Time | Note(P.168) | heard. |
| Nt | | |
| Dly3 Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| D3.Time | 1–2600 | Adjusts the time from the original sound until delay 3 sounds is |
| D3Time Nt | Note(P.168) | heard. |
| Dly4 Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |

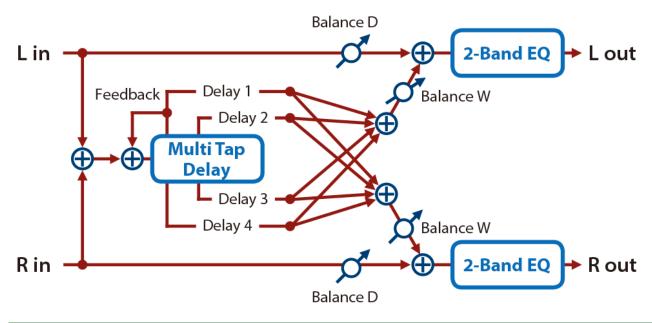
| Parameter | Value | Explanation |
|------------------|--|---|
| D4.Time | 1–2600 | Adjusts the time from the original sound until delay 4 sounds is |
| D4Time | Note(P.168) | heard. |
| Nt | | |
| Dly1 Fbk | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| HF Damp | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000, BYPASS [Hz] | Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any high frequencies, set this parameter to BYPASS. |
| Dly1 Lv | 0–127 | Volume of each delay |
| Dly2 Lv | 0–127 | _ |
| Dly3 Lv | 0–127 | _ |
| Dly4 Lv | 0–127 | _ |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Balance | D100: 0W–D0: 100W | Volume balance between the direct sound (D) and the delay sound (W) |
| Level | 0–127 | Output Level |

MultiTapDly (Multi Tap Delay)

This effect has four delays.

Each of the Delay Time parameters can be set to a note length based on the selected tempo.

You can also set the panning and level of each delay sound.



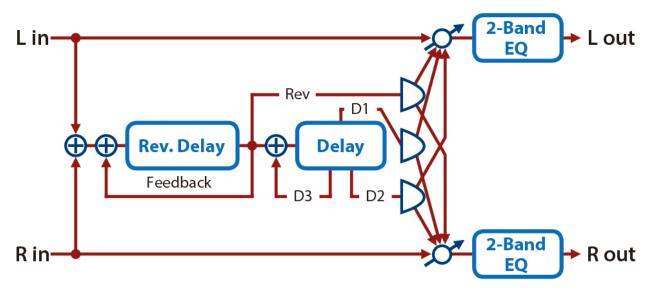
| Parameter | Value | Explanation |
|------------------|-------------|---|
| Dly1 Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| D1.Time | 1–2600 | Adjusts the time from the original sound until delay 1 sounds is |
| D1Time | Note(P.168) | heard. |
| Nt | | |
| Dly2 Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| D2.Time | 1–2600 | Adjusts the time from the original sound until delay 2 sounds is |
| D2Time Nt | Note(P.168) | heard. |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Dly3 Sync | | Tempo (Pattern) Tempo (System)(P.76) |

| - | | |
|----------------|--|---|
| Parameter | 1 3.53.0 | Explanation |
| D3.Time | 1–2600 | Adjusts the time from the original sound until delay 3 sounds is |
| D3Time | Note(P.168) | heard. |
| Nt | | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Dly4 Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| D4.Time | 1–2600 | _ Adjusts the time from the original sound until delay 4 sounds is |
| D4Time | Note(P.168) | heard. |
| Nt | | |
| | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the |
| Dly1 Fbk | | effect. |
| | | Negative (-) settings will invert the phase. |
| | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, | Adjusts the frequency above which sound fed back to the effect is |
| HF Damp | 1600, 2000, 2500, 3150, 4000, 5000, 6300, | filtered out. If you don't want to filter out any high frequencies, set |
| | 8000, BYPASS [Hz] | this parameter to BYPASS. |
| Dly1 Pan | L64-63R | _ Stereo location of Delays 1–4 |
| Dly2 Pan | L64-63R | _ |
| Dly3 Pan | L64-63R | _ |
| Dly4 Pan | L64-63R | - |
| Dly1 Lv | 0–127 | Volume of each delay |
| Dly2 Lv | 0–127 | _ |
| Dly3 Lv | 0–127 | _ |
| Dly4 Lv | 0–127 | _ |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Palanca | D100: 0W-D0: 100W | Volume balance between the direct sound (D) and the effect sound |
| Balance | | (W) |
| Level | 0–127 | Output Level |

Reverse Dly (Reverse Delay)

This is a reverse delay that adds a reversed and delayed sound to the input sound.

A tap delay is connected immediately after the reverse delay.

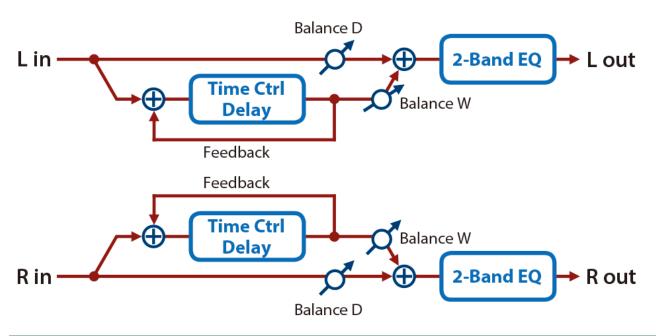


| Parameter | Value | Explanation |
|------------|-------------|--|
| Threshold | 0–127 | Volume at which the reverse delay will begin to be applied |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the |
| RDly Sync | | rhythm. |
| KDIY 3YIIC | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| RD. Time | 1–1300 | Delay time from when sound is input into the reverse delay |
| RD.Time | Note(P.168) | until the delay sound is heard |
| Nt | | |

| Parameter | Value | Explanation |
|------------|--|--|
| | -98-+98 [%] | Proportion of the delay sound that is to be returned to the |
| RDly Fbk | | input of the reverse delay negative (-) values invert the |
| | | phase) |
| | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, | Frequency at which the high-frequency content of the |
| RDly HF | 2000, 2500, 3150, 4000, 5000, 6300, 8000, BYPASS | reverse-delayed sound will be cut. |
| y | [Hz] | If you do not want to cut the high frequencies, set this |
| | | parameter to BYPASS. |
| RDly Pan | L64–63R | Panning of the reverse delay sound |
| RDly Level | | Volume of the reverse delay sound |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the |
| Dly1 Sync | | rhythm. |
| , , | | Tempo (Pattern) |
| D | 1 1200 | Tempo (System)(P.76) |
| D1. Time | 1–1300 | _ Delay time from when sound is input into the tap delay until |
| D1Time Nt | Note(P.168) | the delay sound is heard |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the |
| Dly2 Sync | | rhythm. |
| | | Tempo (Pattern) |
| D2 Time | 1–1300 | Tempo (System)(P.76) Delay time from when sound is input into the tap delay until |
| D2. Time | Note(P.168) | the delay sound is heard |
| D211me Nt | OFF, ON | If this is ON, the rate synchronizes with the tempo of the |
| | OFF, ON | rhythm. |
| Dly3 Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| D3. Time | 1–1300 | Delay time from when sound is input into the tap delay until |
| | Note(P.168) | the delay sound is heard |
| | -98-+98 [%] | Proportion of the delay sound that is to be returned to the |
| Dly3 Fbk | | input of the tap delay (negative (-) values invert the phase) |
| | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, | Frequency at which the hi-frequency content of the tap |
| Dly HF | 2000, 2500, 3150, 4000, 5000, 6300, 8000, BYPASS | delay sound will be cut. |
| ыу пг | [Hz] | If you do not want to cut the high frequencies, set this |
| | | parameter to BYPASS. |
| Dly1 Pan | L64–63R | _ Panning of the tap delay sounds |
| Dly2 Pan | L64–63R | |
| Dly1 Lv | 0–127 | Volume of the tap delay sounds |
| Dly2 Lv | 0–127 | |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Balance | D100: 0W–D0: 100W | Volume balance between the direct sound (D) and the delay |
| | | sound (W) |
| Level | 0–127 | Output Level |

TimeCtrlDly (Time Control Delay)

A stereo delay in which the delay time can be varied smoothly.

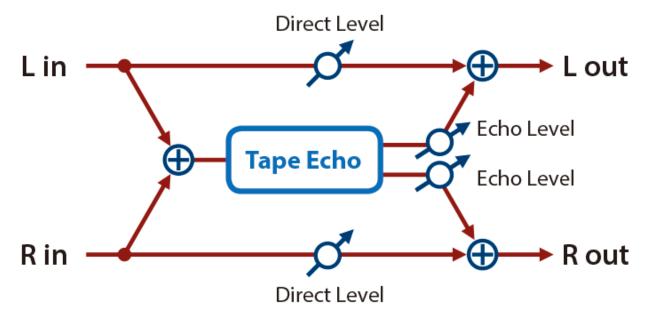


| Parameter | Value | Explanation |
|-------------------|--|---|
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of |
| Delay Sync | | the rhythm. |
| | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| D.Time | 1–1300 | Delay time from when the original sound is heard to |
| D.Time Nt | Note(P.168) | when the delay sound is heard |
| | 0–15 | Adjusts the speed which the Delay Time changes from |
| Acceleration | | the current setting to a specified new setting. |
| Acceleration | | The rate of change for the Delay Time directly affects |
| | | the rate of pitch change. |
| | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed |
| Feedback | | back into the effect. |
| | | Negative (-) settings will invert the phase. |
| | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, | Adjusts the frequency above which sound fed back to |
| UE D | 2500, 3150, 4000, 5000, 6300, 8000, BYPASS [Hz] | the effect is filtered out. |
| HF Damp | | If you don't want to filter out any high frequencies, set |
| | | this parameter to BYPASS. |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Balance | D100: 0W-D0: 100W | Volume balance between the direct sound (D) and the |
| | | delay sound (W) |
| Level | 0–127 | Output Level |

Tape Echo

A virtual tape echo that produces a realistic tape delay sound.

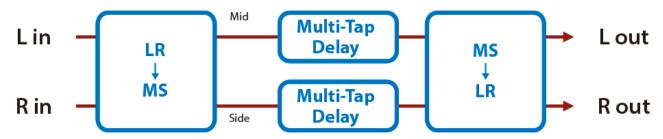
This simulates the tape echo section of a Roland RE-201 Space Echo.



| Parameter | Value | Explanation |
|-------------------|-------------------------|---|
| | S, M, L, S+M, S+L, M+L, | Combination of playback heads to use |
| | S+M+L | Select from three different heads with different delay times. |
| Mode | | S: short |
| | | M: middle |
| | | L: long |
| Repeat | 0–127 | Tape speed |
| Rate | | Increasing this value will shorten the spacing of the delayed sounds. |
| Intensity | 0–127 | Amount of delay repeats |
| Bass | -15-+15 [dB] | Boost/cut for the lower range of the echo sound |
| Treble | -15-+15 [dB] | Boost/cut for the upper range of the echo sound |
| Head S Pan | L64-63R | Independent panning for the short, middle, and long playback heads |
| Head M | L64-63R | |
| Pan | | _ |
| Head L Pan | L64-63R | |
| | 0–5 | Amount of tape-dependent distortion to be added |
| Distortion | | This simulates the slight tonal changes that can be detected by signal-analysis |
| Distortion | | equipment. |
| | | Increasing this value will increase the distortion. |
| Wf Rate | 0–127 | Speed of wow/flutter (complex variation in pitch caused by tape wear and rotational |
| winate | | irregularity) |
| Wf Depth | 0–127 | Depth of wow/flutter |
| Echo Level | 0–127 | Volume of the echo sound |
| Direct Lv | 0–127 | Volume of the original sound |
| Level | 0–127 | Output Level |

M/S Delay (Mid-Side Delay)

This effect applies different amounts of delay to left/right signals of similar phase and differing phase.



| Parameter | Value | Explanation |
|-----------|-------|--|
| MD Level | 0–127 | Delay volume of left/right input signals whose phase is similar (in phase) |

| Parameter | Value | Explanation |
|------------------|--|---|
| MD Mode | 2TAP, 3TAP, 4TAP | Delay divisions for the input signals whose left/right phase is |
| MD Mode | | similar (identical phase) |
| MD Tm | OFF, ON | If this is ON, the delay synchronizes with the tempo. |
| Sync | | |
| MD. Time | 1–1300 | Adjusts the time from the original sound until the delay sound is |
| MDTime Nt | Note(P.168) | heard. |
| MD | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the |
| Feedback | | effect. |
| гееираск | | Negative (-) settings will invert the phase. |
| MD | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, | Adjusts the frequency above which sound fed back to the effect is |
| HFDamp | 1600, 2000, 2500, 3150, 4000, 5000, 6300, | filtered out. If you don't want to filter out any high frequencies, set |
| · | 8000, BYPASS [Hz] | this parameter to BYPASS. |
| MD1 Pan | L64–63R | Panning of the first delay sound |
| MD2 Pan | L64-63R | Panning of the second delay sound |
| MD3 Pan | L64-63R | Panning of the third delay sound |
| MD4 Pan | L64-63R | Panning of the fourth delay sound |
| SD Level | 0–127 | Delay volume of left/right input signals whose phase is distant |
| 3D Level | | (opposite phase) |
| SD Mode | 2TAP, 3TAP, 4TAP | Delay divisions for the input signals whose left/right phase is |
| 3D Mode | | distant (reverse phase) |
| SD Tm Sync | OFF, ON | If this is ON, the delay synchronizes with the tempo. |
| SD Time | 1–1300 | _ Adjusts the time from the original sound until the delay sound is |
| SDTime Nt | Note(P.168) | heard. |
| SD | -98–+98 [%] | Adjusts the proportion of the delay sound that is fed back into the |
| Feedback | | effect. |
| Тесириск | | Negative (-) settings will invert the phase. |
| SD | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, | Adjusts the frequency above which sound fed back to the effect is |
| HFDamp | 1600, 2000, 2500, 3150, 4000, 5000, 6300, | filtered out. If you don't want to filter out any high frequencies, set |
| | 8000, BYPASS [Hz] | this parameter to BYPASS. |
| SD1 Pan | L64–63R | Panning of the first delay sound |
| SD2 Pan | L64–63R | Panning of the second delay sound |
| SD3 Pan | L64–63R | Panning of the third delay sound |
| SD4 Pan | L64–63R | Panning of the fourth delay sound |
| Level | 0–127 | Output Level |

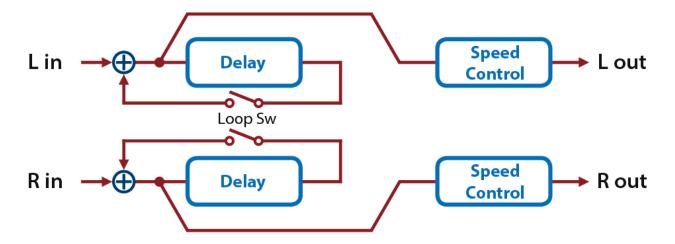
Looper

DJFX Looper(P.142)
BPM Looper(P.142)

DJFX Looper

Loops a short portion of the input sound.

You can vary the playback direction and playback speed of the input sound to add turntable-type effects.

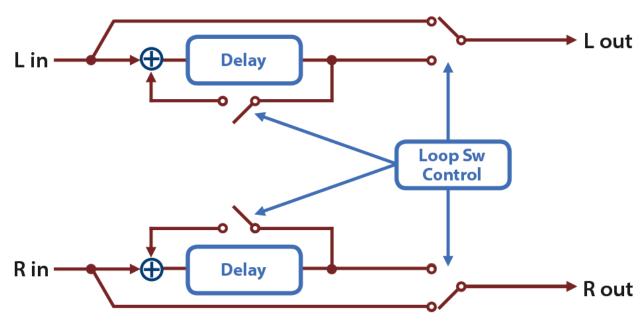


| Parameter | Value | Explanation |
|------------------|--------------------------|---|
| Length | 230–23 (not straight) | Specifies the length of the loop. |
| Speed | -1.00-+1.00 | Specifies the playback direction and playback speed direction: Reverse playback + direction: Normal playback 0: Stop playback As the value moves away from 0, the playback speed becomes faster. |
| Loop Sw | OFF, ON | If you turn this on while the sound is heard, the sound at that point will be looped. Turn this off to cancel the loop. * If the effect is recalled with this ON, this parameter must be turned OFF and then turned ON again in order to make the loop operate. |
| Level | 0–127 | Output Level |

BPM Looper

Loops a short portion of the input sound.

This can automatically turn the loop on/off in synchronization with the rhythm.



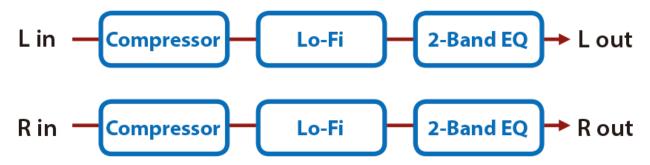
| Parameter | Value | Explanation |
|------------------|--------------------------|--|
| Length | 230–23 (not straight) | Specifies the length of the loop. |
| Rate Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| Rate | 0.05-10.00 [Hz] | Cycle at which the loop automatically turns on/off |
| Rate Note | Note(P.168) | |
| Timing | 1–8 | Specifies the timing within the cycle at which the loop automatically starts (which step of the eight timing divisions at which the sound is heard). |
| Lenth | 1–8 | Specifies the length at which the loop automatically ends within the cycle (the number of times that the 1/8-length of sound is heard). |
| Loop Mode | OFF, AUTO, ON | If this is AUTO, the loop automatically turns on/off in synchronization with the rhythm. * If the effect is recalled with this ON, this parameter must first be set to something other than ON in order to make the loop operate. |
| Level | 0–127 | Output Level |

Lo-fi

LOFI Comp (Lo-Fi Compressor) (P.144)
Bit Crusher (P.144)
Phonograph (P.145)

LOFI Comp (Lo-Fi Compressor)

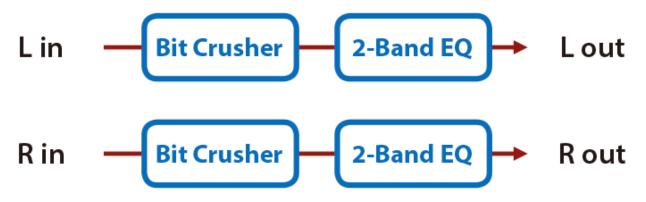
Degrades the sound quality.



| Parameter | Value | Explanation |
|------------------|-------------------|---|
| Pre Filter | 1–6 | Selects the type of filter applied to the sound before it passes through the Lo-Fi effect. 1: Compressor off 2–6: Compressor on |
| LoFi Type | 1–9 | Degrades the sound quality. The sound quality grows poorer as this value is increased. |
| Post Filter | OFF, LPF, HPF | Selects the type of filter applied to the sound after it passes through the Lo-Fi effect. OFF: No filter is used LPF: Cuts the frequency range above the Cutoff Freq HPF: Cuts the frequency range below the Cutoff Freq |
| Cutoff | 200-8000 [Hz] | Basic frequency of the Post Filter |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Balance | D100: 0W-D0: 100W | Volume balance between the direct sound (D) and the effect sound (W) |
| Level | 0–127 | Output Level |

Bit Crusher

Produces an extreme lo-fi effect.

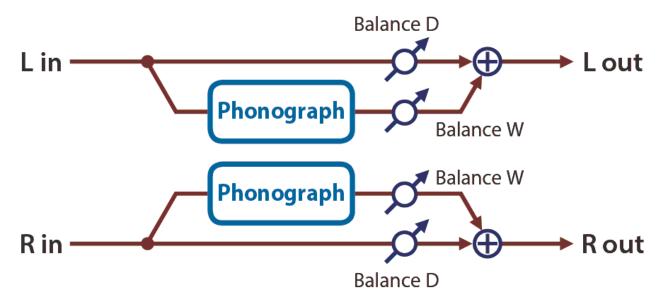


| Parameter | Value | Explanation |
|-------------|--------------|--|
| Sample Rate | 0–127 | Adjusts the sample rate. |
| Bit Down | 0–20 | Adjusts the bit depth. |
| Filter | 0–127 | Adjusts the filter depth. |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

Phonograph

Recreates the sound of an analog record being played on a record player.

This lets you simulate the unique noises produced when a record is played, as well as the variations that occur when the record spins.



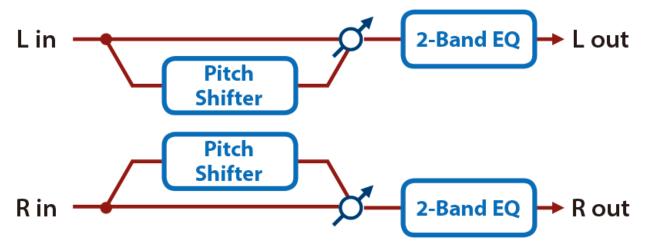
| Parameter | Value | Explanation | |
|---------------------|-------------------|---|--|
| Signal Dist | 0–127 | Sets the amount of distortion. | |
| Frequency Range | 0–127 | Sets the frequency characteristics of the playback system. | |
| Trequency number | | Smaller values create the feeling of an older system with narrow frequency bands. | |
| Disc Type | LP, EP, SP | Sets the turntable rotation speed. | |
| Disc Type | | This has an effect on the scratch noise cycle. | |
| Scratch NZ Lev | 0–127 | Sets the volume of noise created by scratches in the record. | |
| Dust NZ Lev | 0–127 | Sets the volume of noise created by dust on the record. | |
| Hiss NZ Lev | 0–127 | Sets the volume of continuous hiss noise. | |
| Total NZ Lev | 0–127 | Sets the volume of noise overall. | |
| Wow | 0–127 | Sets the amount of variation in record spin (long cycle). | |
| Flutter | 0–127 | Sets the amount of variation in record spin (short cycle). | |
| Random | 0–127 | Sets the amount of non-cyclical variation in record spin. | |
| Total W/F | 0–127 | Sets the volume of variation in record spin overall. | |
| Balance | D100: 0W-D0: 100W | Sets the volume balance between the original sound (D) and the effect sound (W). | |
| Level | 0–127 | Output Level | |

Pitch

PitchShiftr (Pitch Shifter)(P.146)
2V PShifter (2 Voice Pitch Shifter)(P.146)

PitchShiftr (Pitch Shifter)

A stereo pitch shifter.

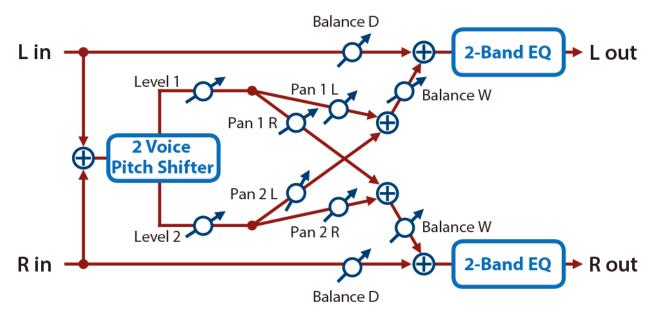


| Parameter | Value | Explanation | |
|-------------------|-------------------|--|--|
| Coarse | -24-+12 [sem] | Adjusts the pitch of the pitch shifted sound in semitone steps. | |
| Fine | -100-+100 | Adjusts the pitch of the pitch shifted sound in 2-cent steps. | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. | |
| Delay Sync | | Tempo (Pattern) | |
| | | Tempo (System)(P.76) | |
| D. Time | 1–1300 | Adjusts the delay time from the direct sound until the pitch shifted sound is heard. | |
| D.Time Nt | Note(P.168) | | |
| Feedback | -98-+98 [%] | Adjusts the proportion of the pitch shifted sound that is fed back into the effect. | |
| reedback | | Negative (-) settings will invert the phase. | |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range | |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range | |
| Balance | D100: 0W-D0: 100W | Volume balance between the direct sound (D) and the pitch shifted sound (W) | |
| Level | 0–127 | Output Level | |

2V PShifter (2 Voice Pitch Shifter)

Shifts the pitch of the original sound.

This 2-voice pitch shifter has two pitch shifters, and can add two pitch shifted sounds to the original sound.

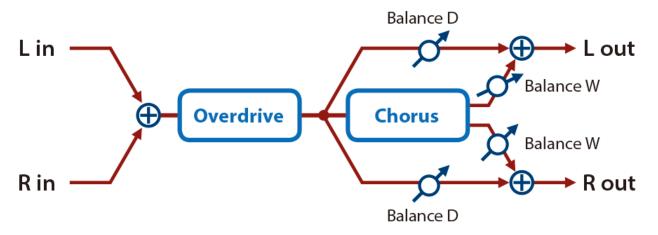


| Parameter | Value | Explanation | |
|--------------|-------------------|--|--|
| P1Coarse | -24-+12 [sem] | Adjusts the pitch of Pitch Shift 1 in semitone steps. | |
| P1 Fine | -100-+100 | Adjusts the pitch of Pitch Shift Pitch 1 in 2-cent steps. | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. | |
| P1 Dly Sync | | Tempo (Pattern) | |
| | | Tempo (System)(P.76) | |
| P1D.Time | 1–1300 | Adjusts the delay time from the direct sound until the Pitch Shift 1 sound is heard. | |
| P1DRate Nt | Note(P.168) | | |
| P1 Feedback | -98-+98 [%] | Adjusts the proportion of the pitch shifted sound that is fed back into the effect. | |
| P I Feedback | | Negative (-) settings will invert the phase. | |
| P1 Pan | L64-63R | Stereo location of the Pitch Shift 1 sound | |
| P1 Level | 0–127 | Volume of the Pitch Shift 1 sound | |
| P2Coarse | -24-+12 [sem] | Settings of the Pitch Shift 2 sound. | |
| P2 Fine | -100-+100 | The parameters are the same as for the Pitch Shift 1 sound. | |
| P2 Dly Sync | OFF, ON | | |
| P2D.Time | 1–1300 | | |
| P2DRate Nt | Note | | |
| P2 Feedback | -98-+98 [%] | | |
| P2 Pan | L64-63R | | |
| P2 Level | 0–127 | | |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range | |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range | |
| Balance | D100: 0W-D0: 100W | Volume balance between the direct sound (D) and the pitch shifted sound (W) | |
| Level | 0–127 | Output Level | |

Combination

```
OD -> Chorus (Overdrive -> Chorus)(P.148)
OD -> Flanger (Overdrive -> Flanger) (P.149)
OD -> Delay (Overdrive -> Delay)(P.149)
DS -> Chorus (Distortion -> Chorus)(P.150)
DS -> Flanger (Distortion -> Flanger) (P.151)
DS -> Delay (Distortion -> Delay) (P.151)
OD/DS -> T. Wah (Overdrive/Distortion -> Touch Wah)(P.152)
OD/DS \rightarrow A. Wah (Overdrive/Distortion \rightarrow Auto Wah)(P.152)
Gt -> Chorus (Guitar Amp Simulator -> Chorus) (P.153)
Gt -> Flanger (Guitar Amp Simulator -> Flanger)(P.154)
Gt -> Phaser (Guitar Amp Simulator -> Phaser)(P.156)
Gt -> Delay (Guitar Amp Simulator -> Delay) (P.157)
EP -> Tremolo (EP Amp Simulator -> Tremolo) (P.158)
EP -> Chorus (EP Amp Simulator -> Chorus) (P.159)
EP -> Flanger (EP Amp Simulator -> Flanger)(P.160)
EP -> Phaser (EP Amp Simulator -> Phaser)(P.160)
EP -> Delay (EP Amp Simulator -> Delay)(P.161)
Enhncr -> Cho (Enhancer -> Chorus)(P.162)
Enhncr -> FI (Enhancer -> Flanger) (P.162)
Enhncr -> Dly (Enhancer -> Delay)(P.163)
Chorus -> Dly (Chorus -> Delay) (P.164)
Flanger -> Dly (Flanger -> Delay) (P.164)
Chorus -> FI (Chorus -> Flanger) (P.165)
JD-Multi(P.166)
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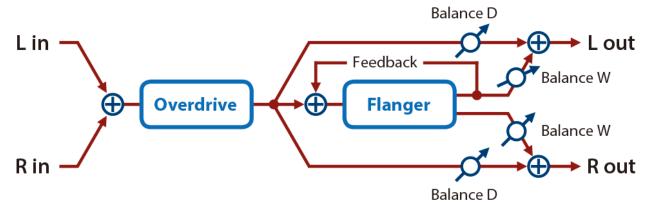
OD -> Chorus (Overdrive -> Chorus)



| Parameter | Value | Explanation |
|-----------|--------------|---|
| OD Drive | 0–127 | Degree of distortion |
| OD Drive | | Also changes the volume. |
| OD Pan | L64-63R | Stereo location of the overdrive sound |
| Cho | 0.0-100 [ms] | Adjusts the delay time from the direct sound until the chorus sound is heard. |
| PreDly | | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Cho Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |

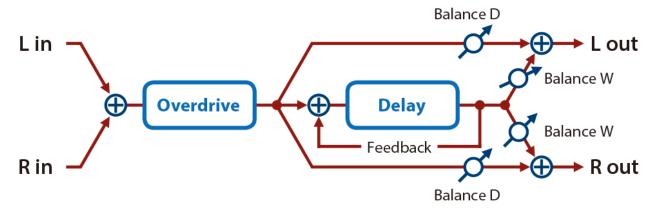
| Parameter | Value | Explanation |
|------------------|-----------------|--|
| C.Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| C.Rate Nt | Note(P.168) | |
| Cho Depth | 0–127 | Depth of modulation |
| Cho Bal | D100: 0W-D0: | Adjusts the volume balance between the sound that is sent through the chorus (W) and the |
| CHO Bai | 100W | sound that is not sent through the chorus (D). |
| Level | 0–127 | Output Level |

OD -> Flanger (Overdrive -> Flanger)



| Parameter | Value | Explanation |
|------------|-----------------|---|
| OD Drive | 0–127 | Degree of distortion |
| OD Drive | | Also changes the volume. |
| OD Pan | L64-63R | Stereo location of the overdrive sound |
| Flg PreDly | 0.0-100 [ms] | Adjusts the delay time from the direct sound until the flanger sound is heard. |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Flg Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| F.Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| F.Rate Nt | Note(P.168) | |
| Flg Depth | 0–127 | Depth of modulation |
| Clar Chir | -98-+98 [%] | Adjusts the proportion of the flanger sound that is fed back into the effect. |
| Flg Fbk | | Negative (-) settings will invert the phase. |
| Ela Pal | D100: 0W-D0: | Adjusts the volume balance between the sound that is sent through the flanger (W) and the |
| Flg Bal | 100W | sound that is not sent through the flanger (D). |
| Level | 0–127 | Output Level |

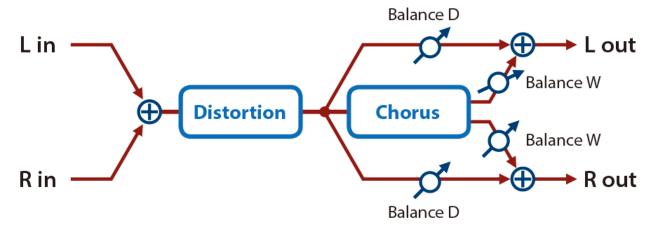
OD -> Delay (Overdrive -> Delay)



| Parameter | Value | Explanation |
|-----------|---------|--|
| OD Drive | 0–127 | Degree of distortion |
| ODDIIVE | | Also changes the volume. |
| OD Pan | L64-63R | Stereo location of the overdrive sound |

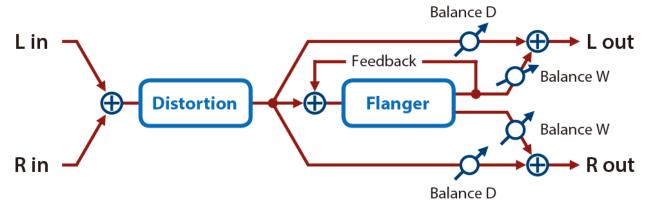
| Parameter | Value | Explanation |
|---------------|--|---|
| Delay Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| D. Time | 1–2600 | Delay time from when the original sound is heard to when the |
| D.Time Nt | Note(P.168) | delay sound is heard |
| Delay Fbk | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| Dly HF | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000, BYPASS [Hz] | Adjusts the frequency above which sound fed back to the effect will be cut. If you do not want to cut the high frequencies, set this parameter to BYPASS. |
| Dly Bal | D100: 0W-D0: 100W | Adjusts the volume balance between the sound that is sent through the delay (W) and the sound that is not sent through the delay (D). |
| Level | 0–127 | Output Level |

DS -> Chorus (Distortion -> Chorus)



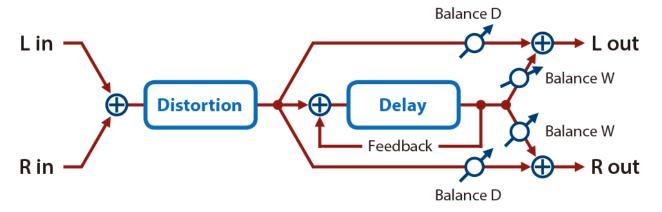
| Parameter | Value | Explanation |
|------------------|-----------------|--|
| Dist Drive | 0–127 | Degree of distortion |
| DIST Drive | | Also changes the volume. |
| Dist Pan | L64-63R | Stereo location of the distortion sound |
| Cho | 0.0-100 [ms] | Adjusts the delay time from the direct sound until the chorus sound is heard. |
| PreDly | | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Cho Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| C. Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| C.Rate Nt | Note(P.168) | |
| Cho Depth | 0–127 | Depth of modulation |
| Cho Bal | D100: 0W-D0: | Adjusts the volume balance between the sound that is sent through the chorus (W) and the |
| Спо ваг | 100W | sound that is not sent through the chorus (D). |
| Level | 0–127 | Output Level |

DS -> Flanger (Distortion -> Flanger)



| Parameter | Value | Explanation |
|------------|-----------------|---|
| Dist Drive | 0–127 | Degree of distortion |
| DIST Drive | | Also changes the volume. |
| Dist Pan | L64-63R | Stereo location of the distortion sound |
| Flg PreDly | 0.0-100 [ms] | Adjusts the delay time from the direct sound until the flanger sound is heard. |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Flg Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| F. Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| F.Rate Nt | Note(P.168) | |
| Flg Depth | 0–127 | Depth of modulation |
| Flg Fbk | -98-+98 [%] | Adjusts the proportion of the flanger sound that is fed back into the effect. |
| rig rbk | | Negative (-) settings will invert the phase. |
| Flg Bal | D100: 0W-D0: | Adjusts the volume balance between the sound that is sent through the flanger (W) and the |
| riy bai | 100W | sound that is not sent through the flanger (D). |
| Level | 0–127 | Output Level |

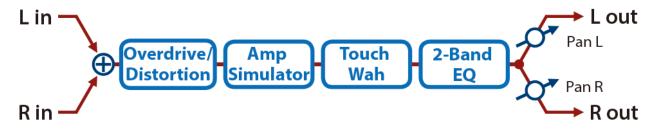
DS -> Delay (Distortion -> Delay)



| Parameter | Value | Explanation |
|------------------|-------------|---|
| Dist Drive | 0–127 | Degree of distortion |
| Dist Dilve | | Also changes the volume. |
| Dist Pan | L64-63R | Stereo location of the distortion sound |
| Delay | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| | | Tempo (Pattern) |
| Sync | | Tempo (System)(P.76) |
| D. Time | 1–2600 | Delay time from when the original sound is heard to when the |
| D.Time Nt | Note(P.168) | delay sound is heard |
| | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the |
| Delay Fbk | | effect. |
| | | Negative (-) settings will invert the phase. |

| Parameter | Value | Explanation |
|-----------|---|---|
| | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, | Adjusts the frequency above which sound fed back to the effect |
| Dly HF | 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000, | will be cut. If you do not want to cut the high frequencies, set this |
| | BYPASS [Hz] | parameter to BYPASS. |
| | D100: 0W-D0: 100W | Adjusts the volume balance between the sound that is sent |
| Dly Bal | | through the delay (W) and the sound that is not sent through the |
| | | delay (D). |
| Level | 0–127 | Output Level |

OD/DS -> T. Wah (Overdrive/Distortion -> Touch Wah)



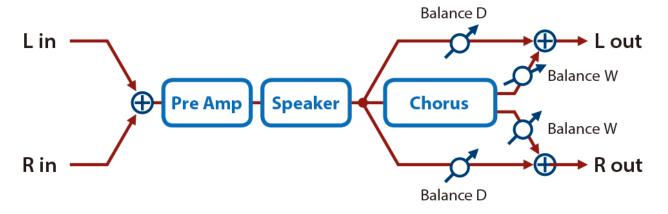
| Parameter | Value | Explanation |
|------------|-----------------------|---|
| Drive | OFF, ON | Turns overdrive/distortion on/off |
| Switch | | |
| D. Type | OVERDRIVE, DISTORTION | Type of distortion |
| Drive | 0–127 | Degree of distortion |
| Dilve | | Also changes the volume. |
| Tone | 0–127 | Sound quality of the Overdrive effect |
| Amp Switch | | Turns the Amp Simulator on/off. |
| | SMALL, BUILT-IN, 2- | Type of guitar amp |
| | STACK, 3-STACK | SMALL: Small amp |
| AmpType | | BUILT-IN: Single-unit type amp |
| | | 2-STACK: Large double stack amp |
| | | 3-STACK: Large triple stack amp |
| TWah | OFF, ON | Wah on/off |
| Switch | | |
| | LPF, BPF | Filter type |
| TWah Mode | | LPF: The wah effect will be applied over a wide frequency range. |
| | | BPF: The wah effect will be applied over a narrow frequency range. |
| | DOWN, UP | Direction in which the filter will move |
| TWah Polar | | DOWN: The filter will change toward a lower frequency. |
| | | UP: The filter will change toward a higher frequency. |
| TWah Sens | 0–127 | Sensitivity with which the filter is modified |
| TWah | 0–127 | Center frequency at which the wah effect is applied |
| Manual | | |
| TWah Peak | 0–127 | Width of the frequency region at which the wah effect is applied |
| IWali Peak | | Increasing this value will make the frequency region narrower. |
| TWah Bal | D100: 0W-D0: 100W | Adjusts the volume balance between the sound that is sent through the wah (W) and |
| i wali bai | | the sound that is not sent through the wah (D). |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0–127 | Output Level |

OD/DS -> A. Wah (Overdrive/Distortion -> Auto Wah)



| Parameter | Value | Explanation |
|---------------------|-----------------------|---|
| Drive Switch | OFF, ON | Turns overdrive/distortion on/off |
| D. Type | OVERDRIVE, DISTORTION | Type of distortion |
| Drive | 0–127 | Degree of distortion |
| Dilve | | Also changes the volume. |
| Tone | 0–127 | Sound quality of the Overdrive effect |
| Amp Switch | OFF, ON | Turns the Amp Simulator on/off. |
| | SMALL, BUILT-IN, 2- | Type of guitar amp |
| | STACK, 3-STACK | SMALL: Small amp |
| AmpType | | BUILT-IN: Single-unit type amp |
| | | 2-STACK: Large double stack amp |
| | | 3-STACK: Large triple stack amp |
| AWah | OFF, ON | Wah on/off |
| Switch | | |
| | LPF, BPF | Filter type |
| AWah Mode | | LPF: The wah effect will be applied over a wide frequency range. |
| | | BPF: The wah effect will be applied over a narrow frequency range. |
| AWah | 0–127 | Center frequency at which the wah effect is applied |
| Manual | | |
| AWah Peak | 0–127 | Width of the frequency region at which the wah effect is applied |
| Awan Peak | | Increasing this value will make the frequency region narrower. |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| AWah Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| AWRate | 0.05-10.00 [Hz] | Frequency of modulation |
| AWRate Nt | Note(P.168) | |
| AWah | 0–127 | Depth at which the wah effect is modulated |
| Depth | | |
| AWah Bal | D100: 0W-D0: 100W | Adjusts the volume balance between the sound that is sent through the wah (W) and |
| Awan bai | | the sound that is not sent through the wah (D). |
| Low Gain | -15-+15 [dB] | Amount of boost/cut for the low-frequency range |
| High Gain | -15-+15 [dB] | Amount of boost/cut for the high-frequency range |
| Level | 0-127 | Output Level |
| | | |

Gt -> Chorus (Guitar Amp Simulator -> Chorus)



| Parameter | Value | Explanation |
|-----------|-------------|--|
| Pre Amp | OFF, ON | Turns the amp switch on/off. |
| Sw | | |
| | | Type of guitar amp |
| | | |
| | JC-120 | This models the sound of the Roland JC-120. |
| | CLEAN TWIN | This models a Fender Twin Reverb. |
| ΛTvn | MATCH DRIVE | This models the sound input to left input on a Matchless D/C-30. |
| АТур | | A simulation of the latest tube amp widely used in styles from blues and rock. |
| | BG LEAD | This models the lead sound of the MESA/ Boogie combo amp. |
| | BG LEAD | The sound of a tube amp typical of the late '70s to '80s. |
| | MS1959I | This models the sound input to Input I on a Marshall 1959. |
| | 181213231 | This is a trebly sound suited to hard rock. |

| MS1959II This models the sound input to Input II on a Marshall 1959. MS1959I+II The sound of connecting inputs I and II of the guitar amp in parallel, creating a sound stronger low end than I. SLDN LEAD This models a Soldano SLO-100. This is the typical sound of the eighties. METAL 5150 This models the lead channel of a Peavey EVH 5150. METAL LEAD This is distortion sound that is ideal for performances of heavy riffs. OD-1 This models the sound of the BOSS OD-1. This produces sweet, mild distortion. OD-2 TURBO This is the high-gain overdrive sound of the BOSS OD-2. DISTORTION This gives a basic, traditional distortion sound. | d with a | | |
|--|--|--|--|
| stronger low end than I. SLDN LEAD This models a Soldano SLO-100. This is the typical sound of the eighties. METAL 5150 This models the lead channel of a Peavey EVH 5150. METAL LEAD This is distortion sound that is ideal for performances of heavy riffs. OD-1 This models the sound of the BOSS OD-1. This produces sweet, mild distortion. OD-2 TURBO This is the high-gain overdrive sound of the BOSS OD-2. | d with a | | |
| Stronger low end than I. SLDN LEAD This models a Soldano SLO-100. This is the typical sound of the eighties. METAL 5150 This models the lead channel of a Peavey EVH 5150. METAL LEAD This is distortion sound that is ideal for performances of heavy riffs. OD-1 This models the sound of the BOSS OD-1. This produces sweet, mild distortion. OD-2 TURBO This is the high-gain overdrive sound of the BOSS OD-2. | | | |
| METAL 5150 This models the lead channel of a Peavey EVH 5150. METAL LEAD This is distortion sound that is ideal for performances of heavy riffs. OD-1 This models the sound of the BOSS OD-1. This produces sweet, mild distortion. OD-2 TURBO This is the high-gain overdrive sound of the BOSS OD-2. | | | |
| METAL LEAD This is distortion sound that is ideal for performances of heavy riffs. OD-1 This models the sound of the BOSS OD-1. This produces sweet, mild distortion. OD-2 TURBO This is the high-gain overdrive sound of the BOSS OD-2. | | | |
| OD-1 This models the sound of the BOSS OD-1. This produces sweet, mild distortion. OD-2 TURBO This is the high-gain overdrive sound of the BOSS OD-2. | | | |
| OD-1 This produces sweet, mild distortion. OD-2 TURBO This is the high-gain overdrive sound of the BOSS OD-2. | | | |
| This produces sweet, mild distortion. OD-2 TURBO This is the high-gain overdrive sound of the BOSS OD-2. | | | |
| | | | |
| DISTORTION This gives a basic, traditional distortion sound. | | | |
| | | | |
| FUZZ A fuzz sound with rich harmonic content. | | | |
| Drive 0–127 Volume and amount of distortion of the amp | | | |
| Master 0–127 Volume of the entire pre-amp | | | |
| Gain LOW, MIDDLE, HIGH Amount of pre-amp distortion | | | |
| Bass 0–127 Tone of the bass/mid/treble frequency range | | | |
| Middle 0–127 | | | |
| Treble 0–127 | | | |
| Speaker OFF, ON Selects whether the sound will be sent through the speaker simulation (ON) or not (O | Selects whether the sound will be sent through the speaker simulation (ON) or not (OFF). | | |
| Sw | | | |
| Cabinet Diameter (in inches) and Microphone | | | |
| number of the speaker | | | |
| SMALL 1 small open-back enclosure 10 dynamic SMALL 2 small open-back enclosure 10 dynamic | | | |
| | | | |
| MIDDLE open back enclosure 12 x 1 dynamic JC-120 open back enclosure 12 x 2 dynamic | | | |
| , | | | |
| BUILT-IN 1 open back enclosure 12 x 2 dynamic BUILT-IN 2 open back enclosure 12 x 2 condenser | | | |
| BUILT-IN 3 open back enclosure 12 x 2 condenser | | | |
| STyp BUILT-IN 4 open back enclosure 12 x 2 condenser condenser | | | |
| | | | |
| · | | | |
| BUILT-IN 5 open back enclosure 12 x 2 condenser | | | |
| BUILT-IN 5 open back enclosure 12 x 2 condenser BG STACK 1 sealed enclosure 12 x 2 condenser | | | |
| BUILT-IN 5 open back enclosure 12 x 2 condenser BG STACK 1 sealed enclosure 12 x 2 condenser BG STACK 2 large sealed enclosure 12 x 2 condenser | | | |
| BUILT-IN 5 open back enclosure 12 x 2 condenser BG STACK 1 sealed enclosure 12 x 2 condenser BG STACK 2 large sealed enclosure 12 x 2 condenser MS STACK 1 large sealed enclosure 12 x 4 condenser | | | |
| BUILT-IN 5 open back enclosure 12 x 2 condenser BG STACK 1 sealed enclosure 12 x 2 condenser BG STACK 2 large sealed enclosure 12 x 2 condenser MS STACK 1 large sealed enclosure 12 x 4 condenser MS STACK 2 large sealed enclosure 12 x 4 condenser MS STACK 2 large sealed enclosure 12 x 4 condenser | | | |
| BUILT-IN 5 open back enclosure 12 x 2 condenser BG STACK 1 sealed enclosure 12 x 2 condenser BG STACK 2 large sealed enclosure 12 x 2 condenser MS STACK 1 large sealed enclosure 12 x 4 condenser MS STACK 2 large sealed enclosure 12 x 4 condenser MS STACK 2 large sealed enclosure 12 x 4 condenser METAL STACK large double stack 12 x 4 condenser | | | |
| BUILT-IN 5 open back enclosure 12 x 2 condenser BG STACK 1 sealed enclosure 12 x 2 condenser BG STACK 2 large sealed enclosure 12 x 2 condenser MS STACK 1 large sealed enclosure 12 x 4 condenser MS STACK 2 large sealed enclosure 12 x 4 condenser MS STACK 2 large sealed enclosure 12 x 4 condenser METAL STACK large double stack 12 x 4 condenser 2-STACK large double stack 12 x 4 condenser | | | |
| BUILT-IN 5 open back enclosure 12 x 2 condenser BG STACK 1 sealed enclosure 12 x 2 condenser BG STACK 2 large sealed enclosure 12 x 2 condenser MS STACK 1 large sealed enclosure 12 x 4 condenser MS STACK 2 large sealed enclosure 12 x 4 condenser MS STACK 2 large sealed enclosure 12 x 4 condenser METAL STACK large double stack 12 x 4 condenser | | | |

Gt -> Flanger (Guitar Amp Simulator -> Flanger)

Frequency of modulation

sound that is not sent through the chorus (D).

Depth of modulation

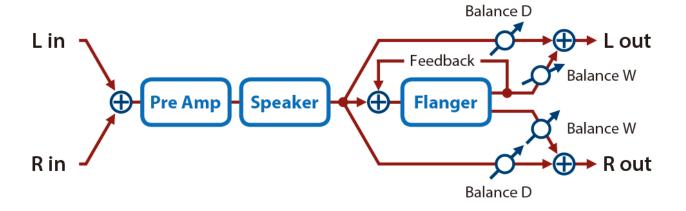
Output Level

0.05-10.00 [Hz]

D100: 0W-D0:

100W

0-127



Adjusts the volume balance between the sound that is sent through the chorus (W) and the

PreDly C. Rate

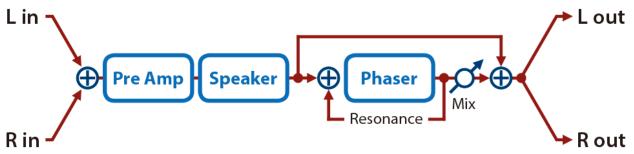
Cho Bal

Level

Cho Depth 0-127

| Pre-Amp OFF, ON Turns the amp switch on/off. | Parameter | Value | Explanation | | |
|--|---|---|---|--|---|
| International Company Inte | - | OFF, ON | | | |
| CLEAN TWINN | | | Type of guitar amp | | |
| MATCH DRIVE | | JC-120 | This models the sound of the | Roland JC-120. | |
| HATCH ORIVE A simulation of the latest tube amp widely used in styles from blues and rock BG LEAD This models the lead sound of the MESA/R Boogie combo amp. The sound of a tube amp typical of the late '70s to '80s. M51959 This rodels the sound input to input 1 on a Marshall 1959. This models the sound input to input 1 on a Marshall 1959. This models the sound input to input 1 on a Marshall 1959. The sound of connecting inputs 1 and 10 of the guitar amp in parallel, creating a sound with a stronger low end than 1. SLDN LEAD This models a Soldano SLO-100. This is the typical sound of the eighties. METAL 5150 This models the lead channel of a Peavey EVH 5150. METAL 1510 This models the lead channel of a Peavey EVH 5150. METAL 1510 This models the sound of the BOSS OD-1. This models the sound of the BOSS OD-1. This models the sound of the BOSS OD-1. This produces sweet, mild distortion. OD-2 TURBO This is distortion sound that is ideal for performances of heavy riffs. OD-1 This gives a basic, traditional distortion sound. This models the sound of the BOSS OD-1. This produces sweet, mild distortion of the BOSS OD-2. DISTORTION This gives a basic, traditional distortion sound. This models the sound with inch harmonic content. Dive O-127 Volume and amount of distortion of the amp After Volume and amount of distortion of the amp The bear of the amount of pre-amp distortion of the amp The bear of the bear of the amount of pre-amp and the pre-amp Fige Name Volume and amount of pre-amp distortion of the amp Amount of pre-amp distortion Speaker Sw Fig. Name Volume and amount of pre-amp distortion of the speaker simulation (ON) or not (OFF). Speaker Sw Fig. SmALL 1 Small open-back enclosure 10 dynamic Diameter (in inches) and microphone number of the speaker SMALL 2 Small open-back enclosure 12 x 2 dynamic Diameter (in inches) and microphone This produce the proper of the speaker Diameter (in inches) and microphone This produce the speaker Diameter (in inches) and microphone This produce the | | CLEAN TWIN | | | |
| A simulation of the latest tube amp windley) used in styles from blues and rock. BG LEAD This models the lead sound of the MESA/ Boogie combo amp. The sound of a tube amp typical of the late "70's to '80's. MS19591 This models the sound input to Input 1 on a Marshall 1959. This is a trebly sound suited to hard rock. MS19591+II This models the sound input to Input 1 on a Marshall 1959. The sound of connecting inputs 1 and II of the guitar amp in parallel, creating a sound with a stronger low end than 1. SIDN LEAD This models the sound input to Input 1 on a Marshall 1959. This models the sound input to Input 1 on a Marshall 1959. This models the sound input to Input 1 on a Marshall 1959. This models the sound that 1 is deal for performances of the eighties. This models the sound that is ideal for performances of heavy riffs. This models the sound that is ideal for performances of heavy riffs. This models the sound that is ideal for performances of heavy riffs. This models the sound that is ideal for performances of heavy riffs. This models the sound that is ideal for performances of heavy riffs. This models the sound with inch harmonic content. DD-2 TURBO This is the high-gain overdrive sound of the BOSS OD-2. DISTORTION This gives a basic, traditional distortion sound. FUZZ A fuzz sound with rich harmonic content. Drive 0-127 Volume and amount of distortion of the amp Workster to 1-127 Volume and amount of distortion of the amp This models the sound will be sent through the speaker simulation (ON) or not (OFF). Seaker Sw DF, RON Selects whether the sound will be sent through the speaker simulation (ON) or not (OFF). SMALL 1 small open-back enclosure 10 dynamic subject to dyna | | MATCH DRIVE | | | |
| ATYP ATYP ATYP ATYP ATYP ATTHS ATHS | | | | | blues and rock. |
| AType AT | | BG LEAD | | | |
| ATyp MS1959H This is a trebly sound suited to hard rock. | | | | | |
| AType MS1959III This models the sound input to Input II on a Marshall 1959. The sound of connecting inputs I and III of the guitar amp in parallel, creating a sound with a stronger low end than I. SLDN LEAD. This models a Soldano SLO-100. This is the typical sound of the eighties. METAL 5150 This models the lead channel of a Peavey EVH 5150. METAL LEAD This is distortion sound that is ideal for performances of heavy riffs. OD-1 This produces sweet, mild distortion. OD-2 TURBO This is the high-gain overdrive sound of the BOSS OD-1. | | MS1959I | | | |
| The sound of connecting inputs I and II of the guitar amp in parallel, creating a sound with a stronger low end than I. | ATvp | MS1959II | | | |
| Astronger low end than i. | ,p | | | | rallel, creating a sound with |
| METAL 1510 | | MS1959I+II | | , | |
| METAL LEAD This is distortion sound that is ideal for performances of heavy riffs. | | SLDN LEAD | This models a Soldano SLO-1 | 00. This is the typical sound of the | e eighties. |
| OD-1 This models the sound of the BOSS OD-1. | | METAL 5150 | | • | |
| This produces sweet, mild distortion. | | METAL LEAD | | | riffs. |
| This produces sweet, mild distortion. Distortion This is the high-gain overdrive sound of the BOSS OD-2. | | OD-1 | | | |
| DITORTION | | | | | |
| Drive 0-127 Volume and amount of distortion of the amp Master LV 0-127 Volume and amount of distortion of the amp Gain LOW, MIDDLE, HIGH Amount of pre-amp distortion Bass 0-127 Tone of the bass/mid/treble frequency range Middle 0-127 Tone of the bass/mid/treble frequency range Freble 0-127 Diameter (in inches) and number of the speaker simulation (ON) or not (OFF). Speaker SW OFF, ON Selects whether the sound will be sent through the speaker simulation (ON) or not (OFF). SMALL 1 small open-back enclosure 10 dynamic SMALL 2 small open-back enclosure 10 dynamic MIDDLE open back enclosure 12 x 1 dynamic JC-120 open back enclosure 12 x 2 dynamic BUILT-IN 1 open back enclosure 12 x 2 dynamic BUILT-IN 3 open back enclosure 12 x 2 condenser BUILT-IN 4 open back enclosure 12 x 2 condenser BUILT-IN 5 open back enclosure 12 x 2 condenser | | | | | |
| Drive 0-127 Volume and amount of distortion of the amp Master LV 0-127 Volume of the entire pre-amp Gain LOW, MIDDLE, HIGH Amount of pre-amp distortion Bass 0-127 Tone of the bass/mid/treble frequency range Middle 0-127 OFF, ON Selects whether the sound will be sent through the speaker simulation (ON) or not (OFF). Speaker SW OFF, ON Selects whether the sound will be sent through the speaker simulation (ON) or not (OFF). SMALL 1 small open-back enclosure 10 dynamic SMALL 2 small open-back enclosure 10 dynamic MIDDLE open back enclosure 12 x 1 dynamic MIDDLE open back enclosure 12 x 2 dynamic BUILT-IN 1 open back enclosure 12 x 2 dynamic BUILT-IN 3 open back enclosure 12 x 2 condenser BUILT-IN 4 open back enclosure 12 x 2 condenser BUILT-IN 5 open back enclosure 12 x 2 condenser BG STACK 1 sealed enclosure 12 x 2 condenser | | | | | |
| Master Lv 0-127 Volume of the entire pre-amp Gain LOW, MIDDLE, HIGH Amount of pre-amp distortion Bass 0-127 Tone of the bass/mid/treble frequency range Middle 0-127 Treble 0-127 Speaker Sw OFF, ON Selects whether the sound will be sent through the speaker simulation (ON) or not (OFF). Cabinet Diameter (in inches) and mumber of the speaker SMALL 1 small open-back enclosure 10 dynamic SMALL 2 small open-back enclosure 10 dynamic MiDDLE open back enclosure 12 x 1 dynamic MIDDLE open back enclosure 12 x 2 dynamic BUILT-IN 1 open back enclosure 12 x 2 dynamic BUILT-IN 2 open back enclosure 12 x 2 condenser BUILT-IN 3 open back enclosure 12 x 2 condenser BUILT-IN 5 open back enclosure 12 x 2 condenser BUILT-IN 5 open back enclosure 12 x 2 condenser BUILT-IN 6 open back enclosure | | | | | |
| Gain LOW, MIDDLE, HIGH Amount of pre-amp distortion Bass 0-127 Tone of the bass/mid/treble frequency range Middle 0-127 Tone of the bass/mid/treble frequency range Treble 0-127 Diameter (in inches) and number of the speaker simulation (ON) or not (OFF). Speaker Sw OFF, ON Selects whether the sound will be sent through the speaker simulation (ON) or not (OFF). SMALL 1 small open-back enclosure 10 dynamic dynamic SMALL 2 small open-back enclosure 12 x 1 dynamic dynamic JC-120 open back enclosure 12 x 2 dynamic BUILT-IN 1 open back enclosure 12 x 2 dynamic BUILT-IN 2 open back enclosure 12 x 2 condenser BUILT-IN 3 open back enclosure 12 x 2 condenser BUILT-IN 4 open back enclosure 12 x 2 condenser BUILT-IN 5 open back enclosure 12 x 2 condenser BG STACK 1 sealed enclosure 12 x 2 condenser BG STACK 2 large sealed enclosure 12 x 4 condenser METAL STACK large sealed enclosure 12 x 4 condenser 2- | | | | · | |
| Bass 0-127 Tone of the bass/mid/treble frequency range Middle 0-127 Treble 0-127 Speaker Sw OFF, ON Selects whether the sound will be sent through the speaker simulation (ON) or not (OFF). Cabinet Diameter (in inches) and number of the speaker SMALL 1 small open-back enclosure 10 dynamic MIDDLE open back enclosure 12 x 1 dynamic MIDDLE open back enclosure 12 x 2 dynamic BUILT-IN 1 open back enclosure 12 x 2 dynamic BUILT-IN 2 open back enclosure 12 x 2 condenser BUILT-IN 3 open back enclosure 12 x 2 condenser BUILT-IN 4 open back enclosure 12 x 2 condenser BUILT-IN 5 open back enclosure 12 x 2 condenser BUILT-IN 1 open back enclosure 12 x 2 condenser BUILT-IN 5 open back enclosure 12 x 2 condenser BUILT-IN 6 open back enclosure 12 x 2 condenser | | | | | |
| Middle 0-127 Treble 0-127 Speaker Sw OFF, ON Selects whether the sound will be sent through the speaker simulation (ON) or not (OFF). Cabinet Diameter (in inches) and microphone number of the speaker SMALL 1 small open-back enclosure 10 dynamic SMALL 2 small open-back enclosure 10 dynamic MIDDLE open back enclosure 12 x 1 dynamic JC-120 open back enclosure 12 x 2 dynamic BUILT-IN 1 open back enclosure 12 x 2 dynamic BUILT-IN 2 open back enclosure 12 x 2 condenser BUILT-IN 3 open back enclosure 12 x 2 condenser BUILT-IN 4 open back enclosure 12 x 2 condenser BUILT-IN 5 open back enclosure 12 x 2 condenser BG STACK 1 sealed enclosure 12 x 2 condenser BG STACK 2 large sealed enclosure 12 x 4 condenser MS STACK 1 large sealed enclosure 12 x 4 condenser <th></th> <td></td> <td></td> <td></td> <td></td> | | | | | |
| Speaker Sw OFF, ON Selects whether the sound will be sent through the speaker simulation (ON) or not (OFF). Speaker Sw OFF, ON Selects whether the sound will be sent through the speaker simulation (ON) or not (OFF). Speaker Sw Diameter (in inches) and Microphone number of the speaker SMALL 1 small open-back enclosure 10 dynamic SMALL 2 small open-back enclosure 12 x 1 dynamic BMIDDLE open back enclosure 12 x 2 dynamic BUILT-IN 1 open back enclosure 12 x 2 condenser BUILT-IN 3 open back enclosure 12 x 2 condenser BUILT-IN 3 open back enclosure 12 x 2 condenser BUILT-IN 3 open back enclosure 12 x 2 condenser BUILT-IN 3 open back enclosure 12 x 2 condenser BUILT-IN 5 open back enclosure 12 x 2 condenser BUILT-IN 5 spealed enclosure 12 x 2 condenser | | | _ lone of the bass/mid/treble i | rrequency range | |
| Speaker Sw OFF, ON Selects whether the sound will be sent through the speaker simulation (ON) or not (OFF). | | | _ | | |
| SMALL 1 Small open-back enclosure 10 dynamic | | | C-14 | :: | I-+: (ONI)+ (OFF) |
| SMALL 1 small open-back enclosure 10 dynamic | Speaker Sw | OFF, ON | | ill be sent through the speaker sir | nulation (ON) or not (OFF). |
| SMALL 1 small open-back enclosure 10 dynamic | | | Cabinat | Diameter (in inches) and | |
| SMALL 2 small open-back enclosure 10 dynamic | | | Cabinet | | |
| MIDDLE | | SMALL 1 | | number of the speaker | Microphone |
| STYPE STYPE STY | | | small open-back enclosure | number of the speaker 10 | Microphone dynamic |
| STYPE BUILT-IN 1 | | SMALL 2 | small open-back enclosure small open-back enclosure | number of the speaker 10 10 | Microphone dynamic dynamic |
| BUILT-IN 2 open back enclosure 12 x 2 condenser | | SMALL 2 MIDDLE | small open-back enclosure small open-back enclosure open back enclosure | number of the speaker 10 10 12 x 1 | Microphone dynamic dynamic dynamic |
| BUILT-IN 3 Open back enclosure 12 x 2 Condenser | | SMALL 2 MIDDLE JC-120 | small open-back enclosure small open-back enclosure open back enclosure open back enclosure | 10 10 12 x 1 12 x 2 | Microphone dynamic dynamic dynamic dynamic dynamic |
| BUILT-IN 4 open back enclosure 12 x 2 condenser BUILT-IN 5 open back enclosure 12 x 2 condenser BG STACK 1 sealed enclosure 12 x 2 condenser BG STACK 2 large sealed enclosure 12 x 2 condenser MS STACK 1 large sealed enclosure 12 x 4 condenser MS STACK 2 large sealed enclosure 12 x 4 condenser MS STACK 2 large sealed enclosure 12 x 4 condenser METAL STACK large double stack 12 x 4 condenser 2-STACK large double stack 12 x 4 condenser 3-STACK large double stack 12 x 4 condenser FIg Switch OFF, ON Flanger on/off Flap PreDly 0.0-100 [ms] Adjusts the delay time from the direct sound until the flanger sound is heard. F. Rate 0.05-10.00 [Hz] Frequency of modulation Flg Depth 0-127 Depth of modulation Flg Fbk Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. Flg Bal D100: 0W-D0: 100W Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D). | | SMALL 2 MIDDLE JC-120 BUILT-IN 1 | small open-back enclosure small open-back enclosure open back enclosure open back enclosure open back enclosure | 10 10 12 x 1 12 x 2 12 x 2 | Microphone dynamic dynamic dynamic dynamic dynamic dynamic |
| BUILT-IN 5 open back enclosure 12 x 2 condenser | | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 | small open-back enclosure small open-back enclosure open back enclosure open back enclosure open back enclosure open back enclosure | 10 10 12 x 1 12 x 2 12 x 2 12 x 2 | Microphone dynamic dynamic dynamic dynamic dynamic condenser |
| BG STACK 1 sealed enclosure 12 x 2 condenser BG STACK 2 large sealed enclosure 12 x 2 condenser MS STACK 1 large sealed enclosure 12 x 4 condenser MS STACK 2 large sealed enclosure 12 x 4 condenser METAL STACK large double stack 12 x 4 condenser 2-STACK large double stack 12 x 4 condenser 3-STACK large triple stack 12 x 4 condenser Flg Switch OFF, ON Flanger on/off Flg PreDly 0.0–100 [ms] Adjusts the delay time from the direct sound until the flanger sound is heard. FRate 0.05–10.00 [Hz] Frequency of modulation Flg Depth 0–127 Depth of modulation Flg Fbk Flg Bal D100: 0W–D0: 100W Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D). | ЅТур | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 | small open-back enclosure small open-back enclosure open back enclosure open back enclosure open back enclosure open back enclosure open back enclosure | number of the speaker 10 10 12 x 1 12 x 2 12 x 2 12 x 2 12 x 2 | Microphone dynamic dynamic dynamic dynamic dynamic condenser condenser |
| MS STACK 1 large sealed enclosure 12 x 4 condenser MS STACK 2 large sealed enclosure 12 x 4 condenser METAL STACK large double stack 12 x 4 condenser 2-STACK large double stack 12 x 4 condenser 3-STACK large triple stack 12 x 4 condenser Flg Switch OFF, ON Flanger on/off Flg PreDly 0.0–100 [ms] Adjusts the delay time from the direct sound until the flanger sound is heard. F. Rate 0.05–10.00 [Hz] Frequency of modulation Flg Depth 0–127 Depth of modulation Flg Fbk -98–+98 [%] Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. Flg Bal D100: 0W–D0: 100W Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D). | ЅТур | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 4 | small open-back enclosure small open-back enclosure open back enclosure open back enclosure open back enclosure open back enclosure open back enclosure open back enclosure | number of the speaker 10 10 12 x 1 12 x 2 | Microphone dynamic dynamic dynamic dynamic dynamic condenser condenser condenser |
| MS STACK 2 large sealed enclosure 12 x 4 condenser METAL STACK large double stack 12 x 4 condenser 2-STACK large double stack 12 x 4 condenser 3-STACK large triple stack 12 x 4 condenser Flg Switch OFF, ON Flanger on/off Flg PreDly 0.0–100 [ms] Adjusts the delay time from the direct sound until the flanger sound is heard. F. Rate 0.05–10.00 [Hz] Frequency of modulation Flg Depth 0–127 Depth of modulation Flg Fbk -98–+98 [%] Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. Flg Bal D100: 0W–D0: 100W Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D). | ЅТур | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 4 BUILT-IN 5 | small open-back enclosure small open-back enclosure open back enclosure open back enclosure open back enclosure open back enclosure open back enclosure open back enclosure | number of the speaker 10 10 12 x 1 12 x 2 | Microphone dynamic dynamic dynamic dynamic dynamic condenser condenser condenser condenser |
| METAL STACK large double stack 12 x 4 condenser 2-STACK large double stack 12 x 4 condenser 3-STACK large triple stack 12 x 4 condenser Flg Switch OFF, ON Flanger on/off Flg PreDly 0.0–100 [ms] Adjusts the delay time from the direct sound until the flanger sound is heard. F. Rate 0.05–10.00 [Hz] Frequency of modulation Flg Depth 0–127 Depth of modulation Flg Fbk -98–+98 [%] Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. Flg Bal D100: 0W–D0: 100W Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D). | ЅТур | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 4 BUILT-IN 5 BG STACK 1 | small open-back enclosure small open-back enclosure open back enclosure sealed enclosure | number of the speaker 10 10 12 x 1 12 x 2 | Microphone dynamic dynamic dynamic dynamic dynamic condenser condenser condenser condenser condenser condenser |
| 2-STACK large double stack 12 x 4 condenser 3-STACK large triple stack 12 x 4 condenser Flg Switch OFF, ON Flanger on/off Flg PreDly 0.0–100 [ms] Adjusts the delay time from the direct sound until the flanger sound is heard. F. Rate 0.05–10.00 [Hz] Frequency of modulation Flg Depth 0–127 Depth of modulation Flg Fbk -98–+98 [%] Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. Flg Bal D100: 0W–D0: 100W Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D). | ЅТур | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 4 BUILT-IN 5 BG STACK 1 BG STACK 2 | small open-back enclosure small open-back enclosure open back enclosure sealed enclosure large sealed enclosure | number of the speaker 10 10 12 x 1 12 x 2 | Microphone dynamic dynamic dynamic dynamic dynamic condenser condenser condenser condenser condenser condenser condenser condenser condenser |
| 3-STACK large triple stack 12 x 4 condenser Flg Switch OFF, ON Flanger on/off Flg PreDly 0.0–100 [ms] Adjusts the delay time from the direct sound until the flanger sound is heard. F. Rate 0.05–10.00 [Hz] Frequency of modulation Flg Depth 0–127 Depth of modulation Flg Fbk -98–+98 [%] Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. Flg Bal D100: 0W–D0: 100W Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D). | ЅТур | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 4 BUILT-IN 5 BG STACK 1 BG STACK 1 MS STACK 1 | small open-back enclosure small open-back enclosure open back enclosure sealed enclosure large sealed enclosure large sealed enclosure | number of the speaker 10 10 12 x 1 12 x 2 | Microphone dynamic dynamic dynamic dynamic dynamic condenser |
| Flg Switch OFF, ON Flanger on/off Flg PreDly 0.0-100 [ms] Adjusts the delay time from the direct sound until the flanger sound is heard. F. Rate 0.05-10.00 [Hz] Frequency of modulation Flg Depth 0-127 Depth of modulation Flg Fbk -98-+98 [%] Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. Flg Bal D100: 0W-D0: 100W Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D). | ЅТур | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 4 BUILT-IN 5 BG STACK 1 BG STACK 2 MS STACK 2 MS STACK 2 | small open-back enclosure small open-back enclosure open back enclosure apen back enclosure large sealed enclosure large sealed enclosure large sealed enclosure | number of the speaker 10 10 12 x 1 12 x 2 | Microphone dynamic dynamic dynamic dynamic dynamic condenser |
| Fig PreDly 0.0–100 [ms] Adjusts the delay time from the direct sound until the flanger sound is heard. F. Rate 0.05–10.00 [Hz] Frequency of modulation Flg Depth 0–127 Depth of modulation Flg Fbk -98–+98 [%] Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. Flg Bal D100: 0W–D0: 100W Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D). | ЅТур | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 4 BUILT-IN 5 BG STACK 1 BG STACK 1 MS STACK 2 METAL STACK | small open-back enclosure small open-back enclosure open back enclosure large sealed enclosure large sealed enclosure large sealed enclosure large sealed enclosure | number of the speaker 10 10 12 x 1 12 x 2 12 x 4 12 x 4 | Microphone dynamic dynamic dynamic dynamic dynamic condenser |
| F. Rate 0.05–10.00 [Hz] Frequency of modulation Flg Depth 0–127 Depth of modulation Flg Fbk -98–+98 [%] Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. Flg Bal D100: 0W–D0: 100W Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D). | SТур | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 4 BUILT-IN 5 BG STACK 1 BG STACK 1 MS STACK 2 METAL STACK 2-STACK | small open-back enclosure small open-back enclosure open back enclosure large sealed enclosure large sealed enclosure large sealed enclosure large double stack large double stack | number of the speaker 10 10 12 x 1 12 x 2 12 x 4 12 x 4 12 x 4 | Microphone dynamic dynamic dynamic dynamic dynamic condenser |
| Flg Depth 0–127 Depth of modulation Flg Fbk -98–+98 [%] Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. Flg Bal D100: 0W–D0: 100W Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D). | | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 4 BUILT-IN 5 BG STACK 1 BG STACK 1 MS STACK 2 METAL STACK 2-STACK OFF, ON | small open-back enclosure small open-back enclosure open back enclosure large sealed enclosure large sealed enclosure large sealed enclosure large double stack large triple stack Flanger on/off | number of the speaker 10 10 12 x 1 12 x 2 12 x 4 12 x 4 12 x 4 12 x 4 | dynamic dynamic dynamic dynamic dynamic dynamic condenser |
| Fig Fbk -98-+98 [%] Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. Fig Bal D100: 0W-D0: 100W Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D). | Flg Switch Flg PreDly | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 4 BUILT-IN 5 BG STACK 1 BG STACK 1 MS STACK 2 METAL STACK 2-STACK OFF, ON 0.0–100 [ms] | small open-back enclosure small open-back enclosure open back enclosure large sealed enclosure large sealed enclosure large sealed enclosure large sealed enclosure large triple stack large triple stack Flanger on/off Adjusts the delay time from te | number of the speaker 10 10 12 x 1 12 x 2 12 x 4 12 x 4 12 x 4 12 x 4 | dynamic dynamic dynamic dynamic dynamic dynamic condenser |
| Fig Bal Settings will invert the phase. Adjusts the volume balance between the sound that is sent through the flanger (W) and the sound that is not sent through the flanger (D). | Flg Switch Flg PreDly F. Rate | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 5 BG STACK 1 BG STACK 1 MS STACK 2 MS STACK 1 MS STACK 2 METAL STACK 2-STACK OFF, ON 0.0-100 [ms] 0.05-10.00 [Hz] | small open-back enclosure small open-back enclosure open back enclosure sealed enclosure large sealed enclosure large sealed enclosure large sealed enclosure large triple stack large triple stack Flanger on/off Adjusts the delay time from the | number of the speaker 10 10 12 x 1 12 x 2 12 x 4 12 x 4 12 x 4 12 x 4 | dynamic dynamic dynamic dynamic dynamic dynamic condenser |
| the sound that is not sent through the flanger (D). | Flg Switch Flg PreDly F. Rate | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 5 BG STACK 1 BG STACK 1 MS STACK 2 MS STACK 1 MS STACK 2 METAL STACK 2-STACK OFF, ON 0.0-100 [ms] 0.05-10.00 [Hz] | small open-back enclosure small open-back enclosure open back enclosure large sealed enclosure large sealed enclosure large sealed enclosure large double stack large double stack large triple stack Flanger on/off Adjusts the delay time from t Frequency of modulation Depth of modulation | number of the speaker 10 10 12 x 1 12 x 2 12 x 4 | dynamic dynamic dynamic dynamic dynamic dynamic condenser |
| | Flg Switch Flg PreDly F. Rate Flg Depth | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 4 BUILT-IN 5 BG STACK 1 BG STACK 1 MS STACK 2 MS STACK 2 METAL STACK 2-STACK 3-STACK 0FF, ON 0.0-100 [ms] 0.05-10.00 [Hz] 0-127 -98-+98 [%] | small open-back enclosure small open-back enclosure open back enclosure large sealed enclosure large sealed enclosure large sealed enclosure large double stack large triple stack large triple stack Flanger on/off Adjusts the delay time from the settings will invert the phase | number of the speaker 10 10 12 x 1 12 x 2 12 x 4 | dynamic dynamic dynamic dynamic dynamic dynamic condenser |
| | Flg Switch Flg PreDly F. Rate Flg Depth Flg Fbk | SMALL 2 MIDDLE JC-120 BUILT-IN 1 BUILT-IN 2 BUILT-IN 3 BUILT-IN 4 BUILT-IN 5 BG STACK 1 BG STACK 1 MS STACK 2 MS STACK 2 METAL STACK 2-STACK 3-STACK 0FF, ON 0.0-100 [ms] 0.05-10.00 [Hz] 0-127 -98-+98 [%] | small open-back enclosure small open-back enclosure open back enclosure large sealed enclosure large sealed enclosure large sealed enclosure large double stack large double stack large triple stack Flanger on/off Adjusts the delay time from the settings will invert the phase Adjusts the volume balance of | number of the speaker 10 10 12 x 1 12 x 2 12 x 4 15 et flanger sound that is fed back into the sound that is sent the sound the sound that is sent the sound that is sent the sound that is sent the sound | dynamic dynamic dynamic dynamic dynamic dynamic condenser |

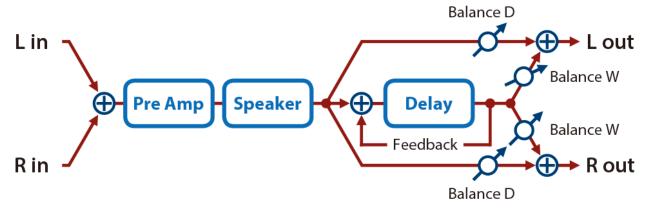
Gt -> Phaser (Guitar Amp Simulator -> Phaser)



| Parameter | Value | Explanation | | | |
|-------------------|------------------------|--|--|----------------|--|
| Pre Amp | OFF, ON | Turns the amp switch on/off. | | | |
| Sw | · | • | | | |
| | JC-120 CLEAN TWIN | Type of guitar amp This models the sound of the This models a Fender Twin F | | | |
| | CLEAN IVVIIV | | | | |
| | MATCH DRIVE | A simulation of the latest tu | t to left input on a Matchless D/C-30. be amp widely used in styles from blues and rocl | ζ. | |
| | BG LEAD | The sound of a tube amp ty | | | |
| | MS1959I | This models the sound input to Input I on a Marshall 1959. This is a trebly sound suited to hard rock. | | | |
| АТур | MS1959II | This models the sound inpu | t to Input II on a Marshall 1959. | | |
| | MS1959I+II | The sound of connecting in stronger low end than I. | outs I and II of the guitar amp in parallel, creating | a sound with a | |
| | SLDN LEAD | This models a Soldano SLO- | 100. This is the typical sound of the eighties. | | |
| | METAL 5150 | This models the lead channe | | | |
| | METAL LEAD | | is ideal for performances of heavy riffs. | | |
| | OD 1 | This models the sound of th | e BOSS OD-1. | | |
| | OD-1 | This produces sweet, mild d | istortion. | | |
| | OD-2 TURBO | This is the high-gain overdri | ve sound of the BOSS OD-2. | | |
| | DISTORTION | This gives a basic, traditiona | l distortion sound. | | |
| | FUZZ | A fuzz sound with rich harmonic content. | | | |
| Drive | 0–127 | Volume and amount of distortion of the amp | | | |
| Master | 0–127 | Volume of the entire pre-amp | | | |
| Gain | LOW, MIDDLE, HIGH | Amount of pre-amp distortion | | | |
| Bass | 0–127 | Tone of the bass/mid/treble | Tone of the bass/mid/treble frequency range | | |
| Middle | 0–127 | | | | |
| Treble | 0–127 | | | | |
| Speaker Sw | OFF, ON | Selects whether the sound was | will be sent through the speaker simulation (ON) | or not (OFF). | |
| | | Cabinet | Diameter (in inches) and number of the | Microphone | |
| | | | speaker | | |
| | SMALL 1 | small open-back enclosure | 10 | dynamic | |
| | SMALL 2 | small open-back enclosure | 10 | dynamic | |
| | MIDDLE | open back enclosure | 12 x 1 | dynamic | |
| | JC-120 | open back enclosure | 12 x 2 | dynamic | |
| | BUILT-IN 1 | open back enclosure | 12 x 2 | dynamic | |
| | BUILT-IN 2 | open back enclosure | 12 x 2 | condenser | |
| STyp | BUILT-IN 3 | open back enclosure | 12 x 2 | condenser | |
| 7. | BUILT-IN 4 | open back enclosure | 12 x 2 | condenser | |
| | BUILT-IN 5 | open back enclosure | 12 x 2 | condenser | |
| | BG STACK 1 | sealed enclosure | 12 x 2 | condenser | |
| | BG STACK 2 | large sealed enclosure | 12 x 2 | condenser | |
| | MS STACK 1 | large sealed enclosure | 12 x 4 | condenser | |
| | MS STACK 2 METAL STACK | large sealed enclosure large double stack | 12 x 4 | condenser | |
| | | | 12 x 4 12 x 4 | condenser | |
| | 2-STACK | large double stack | | condenser | |
| | 3-STACK | large triple stack | 12 x 4 | condenser | |

| Parameter | Value | Explanation |
|-------------------|-----------------|---|
| Phaser Sw | OFF, ON | Phaser on/off |
| P. Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| Phs Manual | 0–127 | Adjusts the basic frequency from which the sound will be modulated. |
| Phs Depth | 0–127 | Depth of modulation |
| Phs Reso | 0–127 | Amount of feedback |
| Phs Mix | 0–127 | Level of the phase-shifted sound |
| Level | 0–127 | Output Level |

Gt -> Delay (Guitar Amp Simulator -> Delay)



| Parameter | Value | Explanation | | |
|---------------|--|--|---|--------------------|
| Pre Amp Sw | OFF, ON | Turns the amp swit | ch on/off. | |
| | | Type of guitar am | р | |
| | JC-120 | This models the so | und of the Roland JC-120. | |
| | CLEAN TWIN | This models a Fenc | ler Twin Reverb. | |
| | MATCH DRIVE | | und input to left input on a Matc latest tube amp widely used in s | |
| | BG LEAD This models the lead sound of the MESA/ Boogie combo amp. The sound of a tube amp typical of the late '70s to '80s. | | | |
| | MS1959I | This models the sound input to Input I on a Marshall 1959. This is a trebly sound suited to hard rock. | | |
| АТур | MS1959II | This models the so | und input to Input II on a Marsha | ll 1959. |
| , | MS1959I+II | | ecting inputs I and II of the guita ith a stronger low end than I. | r amp in parallel, |
| | SLDN LEAD | | ano SLO-100. This is the typical so | ound of the |
| | METAL 5150 | This models the lea | ad channel of a Peavey EVH 5150. | |
| | METAL LEAD | This is distortion so | ound that is ideal for performance | es of heavy riffs. |
| | OD-1 | | und of the BOSS OD-1. | - |
| | This produces sweet, mild distortion. | | | |
| | OD-2 TURBO | This is the high-gai | n overdrive sound of the BOSS O | D-2. |
| | DISTORTION | This gives a basic, traditional distortion sound. | | |
| | FUZZ | A fuzz sound with rich harmonic content. | | |
| Drive | 0–127 | Volume and amou | nt of distortion of the amp | |
| Master | 0–127 | Volume of the enti | re pre-amp | |
| Gain | LOW, MIDDLE, HIGH | Amount of pre-am | p distortion | |
| Bass | 0–127 | Tone of the bass/m | nid/treble frequency range | |
| Middle | 0–127 | | | |
| Treble | 0–127 | | | |
| Speaker Sw | OFF, ON | Selects whether th simulation (ON) or | e sound will be sent through the not (OFF). | speaker |
| | | Cabinet | Diameter (in inches) and | Microphone |
| | | | number of the speaker | |
| STyp | SMALL 1 | small open-back enclosure | 10 | dynamic |

| Parameter | Value | Explanation | | |
|------------------|---|--|---|------------------|
| | SMALL 2 | small open-back | 10 | dynamic |
| | SIVIALL 2 | enclosure | | |
| | MIDDLE | open back | 12 x 1 | dynamic |
| | MIDDLE | enclosure | | |
| | JC-120 | open back | 12 x 2 | dynamic |
| | JC-120 | enclosure | | |
| | BUILT-IN 1 | open back | 12 x 2 | dynamic |
| | DOILT-IN T | enclosure | | |
| | BUILT-IN 2 | open back | 12 x 2 | condenser |
| | BOILT IIV 2 | enclosure | | |
| | BUILT-IN 3 | open back | 12 x 2 | condenser |
| | DOIET IIV S | enclosure | | |
| | BUILT-IN 4 | open back | 12 x 2 | condenser |
| | | enclosure | | |
| | BUILT-IN 5 | open back | 12 x 2 | condenser |
| | | enclosure | | |
| | BG STACK 1 | sealed enclosure | 12 x 2 | condenser |
| | BG STACK 2 | large sealed | 12 x 2 | condenser |
| | | enclosure | | |
| | MS STACK 1 | large sealed | 12 x 4 | condenser |
| | | enclosure | | |
| | MS STACK 2 | large sealed | 12 x 4 | condenser |
| | AAFTAL CTA CV | enclosure | 12 | |
| | METAL STACK | large double stack | 12 x 4 | condenser |
| | 2-STACK | large double stack | 12 x 4 | condenser |
| | 3-STACK | large triple stack | 12 x 4 | condenser |
| Delay Sw | OFF, ON | Delay on/off | | |
| Dly Time | 1–1300 | Delay time from wh sound is heard | en the original sound is heard to | when the delay |
| | -98-+98 [%] | Adjusts the proport | ion of the delay sound that is fed | d back into the |
| Delay Fbk | | effect. | | |
| • | | Negative (-) settings will invert the phase. | | |
| | 200, 250, 315, 400, 500, 630, 800, 1000, | Frequency at which | the high-frequency portion of the | he delay sound |
| Dly HF | 1250, 1600, 2000, 2500, 3150, 4000, 5000, | will be cut. | | |
| иу пг | 6300, 8000, BYPASS [Hz] | | o cut the high frequencies, set th | nis parameter to |
| | D100 0W D0 100W | BYPASS. | | |
| Dly Bal | D100: 0W–D0: 100W | | balance between the sound than sound that is not sent through | |
| Level | 0–127 | Output Level | mat is not selle till ough | |
| TC A CI | V 127 | Jacpat Level | | |

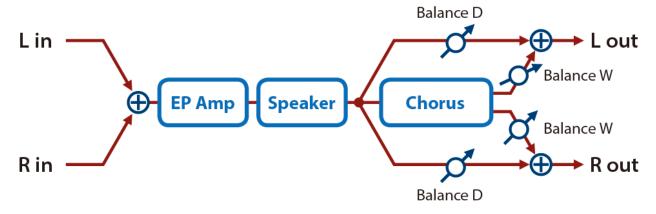
EP -> Tremolo (EP Amp Simulator -> Tremolo)



| Parameter | Value | Explanation |
|---------------------|-----------------|--|
| | | Type of amp |
| Turns | OLDCASE | A standard electric piano sound of the early 70s |
| Туре | NEWCASE | A standard electric piano sound of the late 70s and early 80s |
| | WURLY | A standard electric piano sound of the 60s |
| Bass | -50-+50 | Amount of low-frequency boost/cut |
| Treble | -50-+50 | Amount of high-frequency boost/cut |
| Tremolo Sw | OFF, ON | Tremolo on/off |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Tremolo Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| T. Speed | 0.05-10.00 [Hz] | Rate of the tremolo effect |

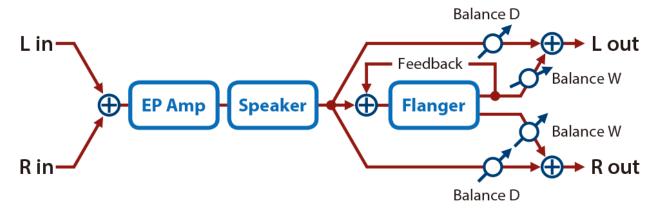
| Parameter | Value | Explanation |
|-----------|-----------------------------|---|
| T.Spd Nt | Note(P.168) | |
| Trm Depth | 0–127 | Depth of the tremolo effect |
| Trm Duty | -10-+10 | Adjusts the duty cycle of the LFO waveform used to apply tremolo. |
| Sp Type | LINE, OLD, NEW, WURLY, TWIN | Type of speaker If LINE is selected, the sound will not be sent through the speaker simulation. |
| OD Switch | OFF, ON | Overdrive on/off |
| OD Gain | 0–127 | Overdrive input level |
| OD Drive | 0–127 | Degree of distortion Also changes the volume. |
| Level | 0–127 | Output Level |

EP -> Chorus (EP Amp Simulator -> Chorus)



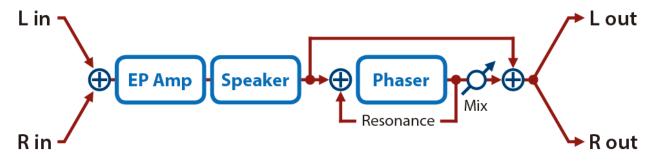
| Parameter | Value | Explanation |
|------------------|-------------------|--|
| | | Type of amp |
| Type | OLDCASE | A standard electric piano sound of the early 70s |
| | NEWCASE | A standard electric piano sound of the late 70s and early 80s |
| Bass | -50-+50 | Amount of low-frequency boost/cut |
| Treble | -50-+50 | Amount of high-frequency boost/cut |
| Cho | OFF, ON | Chorus on/off |
| Switch | | |
| Cho | 0.0-100 [ms] | Adjusts the delay time from the direct sound until the chorus sound is heard. |
| PreDly | | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Cho Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| C. Rate | 0.05-10.00 [Hz] | _ Frequency of modulation |
| C.Rate Nt | Note(P.168) | |
| Cho Depth | 0–127 | Depth of modulation |
| Cho Bal | D100: 0W-D0: 100W | Adjusts the volume balance between the sound that is sent through the chorus (W) and |
| Cilo Dai | | the sound that is not sent through the chorus (D). |
| Sp Type | LINE, OLD, NEW, | Type of speaker |
| эр турс | WURLY, TWIN | If LINE is selected, the sound will not be sent through the speaker simulation. |
| OD Switch | OFF, ON | Overdrive on/off |
| OD Gain | 0–127 | Overdrive input level |
| OD Drive | 0–127 | Degree of distortion |
| OD DIIVE | | Also changes the volume. |
| Level | 0–127 | Output Level |

EP -> Flanger (EP Amp Simulator -> Flanger)



| Parameter | Value | Explanation |
|------------|-------------------|--|
| | | Type of amp |
| Type | OLDCASE | A standard electric piano sound of the early 70s |
| | NEWCASE | A standard electric piano sound of the late 70s and early 80s |
| Bass | -50-+50 | Amount of low-frequency boost/cut |
| Treble | -50-+50 | Amount of high-frequency boost/cut |
| Flg Switch | OFF, ON | Flanger on/off |
| Flg PreDly | 0.0-100 [ms] | Adjusts the delay time from the direct sound until the flanger sound is heard. |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Flg Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| F. Rate | 0.05-10.00 [Hz] | _ Frequency of modulation |
| F.Rate Nt | Note(P.168) | |
| Flg Depth | 0–127 | Depth of modulation |
| Flg Fbk | -98-+98 [%] | Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) |
| 1 19 1 DK | | settings will invert the phase. |
| Flg Bal | D100: 0W-D0: 100W | Adjusts the volume balance between the sound that is sent through the flanger (W) and |
| 9 24. | | the sound that is not sent through the flanger (D). |
| Sp Type | LINE, OLD, NEW, | Type of speaker |
| | WURLY, TWIN | If LINE is selected, the sound will not be sent through the speaker simulation. |
| OD Switch | | Overdrive on/off |
| OD Gain | 0–127 | Overdrive input level |
| OD Drive | 0–127 | Degree of distortion |
| ODDINE | | Also changes the volume. |
| Level | 0–127 | Output Level |

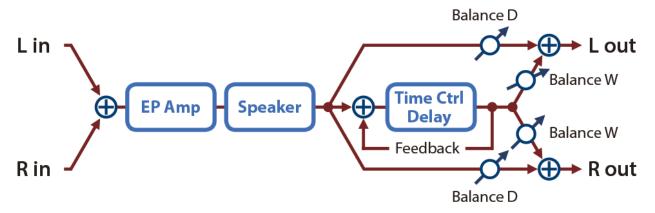
EP -> Phaser (EP Amp Simulator -> Phaser)



| Parameter | Value | Explanation |
|------------|---------|---|
| | | Type of amp |
| Туре | OLDCASE | A standard electric piano sound of the early 70s |
| | NEWCASE | A standard electric piano sound of the late 70s and early 80s |
| Bass | -50-+50 | Amount of low-frequency boost/cut |
| Treble | -50-+50 | Amount of high-frequency boost/cut |
| Phs Switch | OFF, ON | Phaser on/off |

| Parameter | Value | Explanation |
|-------------------|-----------------------------|---|
| Phs Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| P. Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| P.Rate Nt | Note(P.168) | |
| Phs Manual | 0–127 | Adjusts the basic frequency from which the sound will be modulated. |
| Phs Depth | 0–127 | Depth of modulation |
| Phs Reso | 0–127 | Amount of feedback |
| Phs Mix | 0–127 | Level of the phase-shifted sound |
| Sp Type | LINE, OLD, NEW, WURLY, TWIN | Type of speaker If LINE is selected, the sound will not be sent through the speaker simulation. |
| OD Switch | OFF, ON | Overdrive on/off |
| OD Gain | 0–127 | Overdrive input level |
| OD Drive | 0–127 | Degree of distortion Also changes the volume. |
| Level | 0–127 | Output Level |

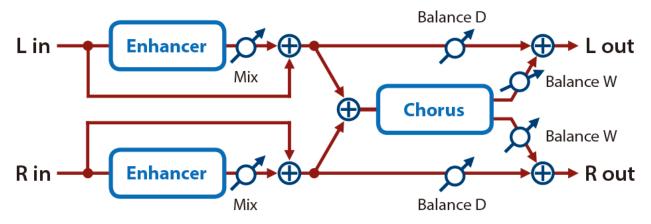
EP -> Delay (EP Amp Simulator -> Delay)



| Parameter | Value | Explanation |
|-------------------|--|---|
| | | Type of amp |
| Type | OLDCASE | A standard electric piano sound of the early 70s |
| | NEWCASE | A standard electric piano sound of the late 70s and early 80s |
| Bass | -50-+50 | Amount of low-frequency boost/cut |
| Treble | -50-+50 | Amount of high-frequency boost/cut |
| Dly Switch | OFF, ON | Delay on/off |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the |
| Delay | | rhythm. |
| Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| D. Time | 1–1300 | _ Delay time from when the original sound is heard to when the |
| D.Time Nt | Note(P.168) | delay sound is heard |
| | 0–15 | Speed at which the current delay time changes to the specified |
| Dly Accel | | delay time when you change the delay time. |
| Diy Accei | | The speed of the pitch change will change simultaneously with |
| | | the delay time. |
| | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into |
| Delay Fbk | | the effect. |
| | 200 250 245 400 500 620 000 4000 4050 | Negative (-) settings will invert the phase. |
| | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, | Frequency at which the high-frequency portion of the delay |
| Dly HF | 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000, | sound will be cut. |
| _ | BYPASS [Hz] | If you do not want to cut the high frequencies, set this |
| | D100: 0W-D0: 100W | parameter to BYPASS. |
| Div Del | ווייים: טעי–טט: ווייים: וויים: וויי | Adjusts the volume balance between the sound that is sent |
| Dly Bal | | through the delay (W) and the sound that is not sent through the delay (D). |
| | | the delay (D). |

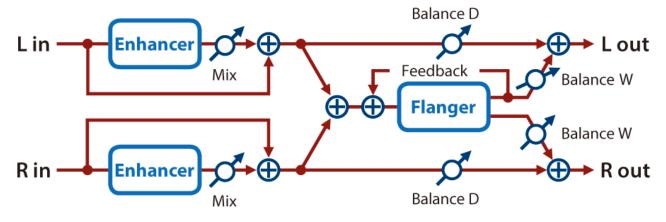
| Parameter | Value | Explanation |
|------------------|-----------------------------|---|
| | LINE, OLD, NEW, WURLY, TWIN | Type of speaker |
| Sp Type | | If LINE is selected, the sound will not be sent through the |
| | | speaker simulation. |
| OD Switch | OFF, ON | Overdrive on/off |
| OD Gain | 0–127 | Overdrive input level |
| OD Drive | 0–127 | Degree of distortion |
| OD Drive | | Also changes the volume. |
| Level | 0–127 | Output Level |

Enhncr -> Cho (Enhancer -> Chorus)



| Parameter | Value | Explanation |
|------------------|-----------------|--|
| Enh Sens | 0–127 | Sensitivity of the enhancer |
| Enh Mix | 0–127 | Level of the overtones generated by the enhancer |
| Cho | 0.0-100 [ms] | Adjusts the delay time from the direct sound until the chorus sound is heard. |
| PreDly | | |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Cho Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| C. Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| C.Rate Nt | Note(P.168) | |
| Cho Depth | 0–127 | Depth of modulation |
| Cho Bal | D100: 0W-D0: | Adjusts the volume balance between the sound that is sent through the chorus (W) and the |
| Cho Bai | 100W | sound that is not sent through the chorus (D). |
| Level | 0–127 | Output Level |

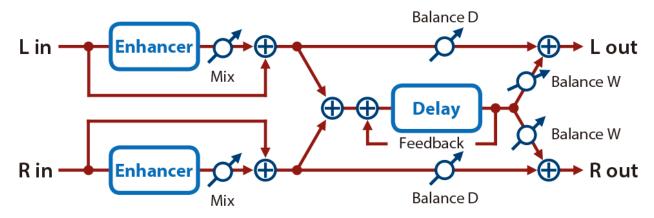
Enhncr -> Fl (Enhancer -> Flanger)



| Parameter | Value | Explanation |
|-----------|-------|--|
| Enh Sens | 0–127 | Sensitivity of the enhancer |
| Enh Mix | 0–127 | Level of the overtones generated by the enhancer |

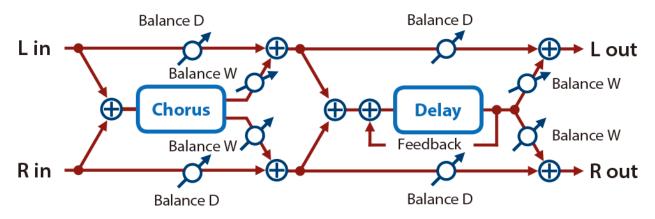
| Parameter | Value | Explanation |
|------------|-----------------|---|
| Flg PreDly | 0.0-100 [ms] | Adjusts the delay time from the direct sound until the flanger sound is heard. |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Flg Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| F. Rate | 0.05-10.00 [Hz] | Frequency of modulation |
| F.Rate Nt | Note(P.168) | |
| Flg Depth | 0–127 | Depth of modulation |
| | -98-+98 [%] | Adjusts the proportion of the flanger sound that is fed back into the effect. |
| Flg Fbk | | Negative (-) settings will invert the phase. |
| Ela Pal | D100: 0W-D0: | Adjusts the volume balance between the sound that is sent through the flanger (W) and the |
| Flg Bal | 100W | sound that is not sent through the flanger (D). |
| Level | 0–127 | Output Level |

Enhncr -> Dly (Enhancer -> Delay)



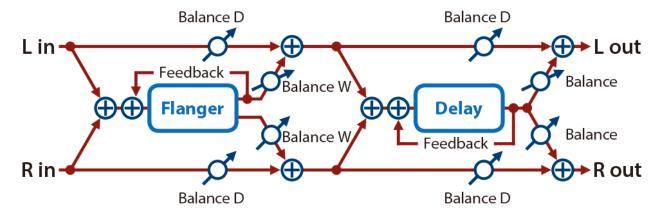
| Parameter | Value | Explanation |
|------------------|---|---|
| Enh Sens | 0–127 | Sensitivity of the enhancer |
| Enh Mix | 0–127 | Level of the overtones generated by the enhancer |
| Delay | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| • | | Tempo (Pattern) |
| Sync | | Tempo (System)(P.76) |
| D. Time | 1–2600 | Delay time from when the original sound is heard to when the |
| D.Time Nt | Note(P.168) | delay sound is heard |
| | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the |
| Delay Fbk | | effect. |
| _ | | Negative (-) settings will invert the phase. |
| | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, | Adjusts the frequency above which sound fed back to the effect |
| Dly HF | 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000, | will be cut. If you do not want to cut the high frequencies, set this |
| | BYPASS [Hz] | parameter to BYPASS. |
| | D100: 0W-D0: 100W | Adjusts the volume balance between the sound that is sent |
| Dly Bal | | through the delay (W) and the sound that is not sent through the |
| | | delay (D). |
| Level | 0–127 | Output Level |

Chorus -> Dly (Chorus -> Delay)



| Parameter | Value | Explanation |
|------------------|---|---|
| Cho | 0.0–100 [ms] | Adjusts the delay time from the direct sound until the chorus |
| PreDly | | sound is heard. |
| | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Cho Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| C. Rate | 0.05–10.00 [Hz] | Frequency of modulation |
| C.Rate Nt | Note(P.168) | |
| Cho Depth | 0–127 | Depth of modulation |
| Cho Bal | D100: 0W-D0: 100W | Volume balance between the direct sound (D) and the chorus |
| Cito Dai | | sound (W) |
| Delay | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. |
| Sync | | Tempo (Pattern) |
| | | Tempo (System)(P.76) |
| D. Time | 1–2600 | Delay time from when the original sound is heard to when the |
| D.Time Nt | Note(P.168) | delay sound is heard |
| | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the |
| Delay Fbk | | effect. |
| | | Negative (-) settings will invert the phase. |
| | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, | Adjusts the frequency above which sound fed back to the effect |
| Dly HF | 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000, | will be cut. If you do not want to cut the high frequencies, set this |
| | BYPASS [Hz] | parameter to BYPASS. |
| | D100: 0W–D0: 100W | Adjusts the volume balance between the sound that is sent |
| Dly Bal | | through the delay (W) and the sound that is not sent through the |
| | | delay (D). |
| Level | 0–127 | Output Level |

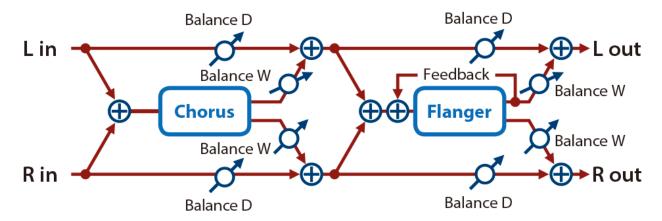
Flanger -> Dly (Flanger -> Delay)



| Parameter | Value | Explanation |
|------------|--------------|--|
| Flg PreDly | 0.0–100 [ms] | Adjusts the delay time from the direct sound until the flanger sound is heard. |

| Parameter | Value | Explanation |
|---------------|--|---|
| Flg Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| F. Rate | 0.05–10.00 [Hz] | _ Frequency of modulation |
| F.Rate Nt | Note(P.168) | |
| Flg Depth | 0–127 | Depth of modulation |
| Flg Fbk | -98-+98 [%] | Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| Flg Bal | D100: 0W–D0: 100W | Volume balance between the direct sound (D) and the flanger sound (W) |
| Delay Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) |
| D. Time | 1–2600 | Delay time from when the original sound is heard to when the |
| D.Time Nt | Note(P.168) | delay sound is heard |
| Delay Fbk | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| Dly HF | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000, BYPASS [Hz] | Adjusts the frequency above which sound fed back to the effect will be cut. If you do not want to cut the high frequencies, set this parameter to BYPASS. |
| Dly Bal | D100: 0W-D0: 100W | Adjusts the volume balance between the sound that is sent through the delay (W) and the sound that is not sent through the delay (D). |
| Level | 0–127 | Output Level |

Chorus -> Fl (Chorus -> Flanger)

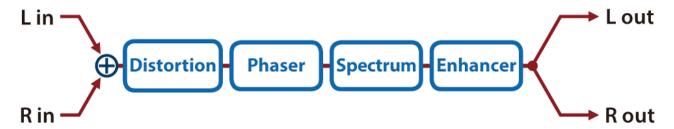


| Parameter | Value | Explanation | |
|------------------|----------------------|---|--|
| Cho PreDly | 0.0–100 [ms] | Adjusts the delay time from the direct sound until the chorus sound is heard. | |
| Cho Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) | |
| C. Rate | 0.05-10.00 [Hz] | Modulation frequency of the chorus effect | |
| C.Rate Nt | Note(P.168) | | |
| Cho Depth | 0–127 | Modulation depth of the chorus effect | |
| Cho Bal | D100: 0W-D0: 100W | Volume balance between the direct sound (D) and the chorus sound (W) | |
| Flg PreDly | 0.0-100 [ms] | Adjusts the delay time from the direct sound until the flanger sound is heard. | |
| Flg Sync | OFF, ON | If this is ON, the rate synchronizes with the tempo of the rhythm. Tempo (Pattern) Tempo (System)(P.76) | |
| F. Rate | 0.05-10.00 [Hz] | Modulation frequency of the flanger effect | |
| F.Rate Nt | Note(P.168) | | |
| Flg Depth | 0–127 | Modulation depth of the flanger effect | |

| Parameter | Value | Explanation |
|-----------|--------------|---|
| Flg Fbk | -98-+98 [%] | Adjusts the proportion of the flanger sound that is fed back into the effect. |
| rig rbk | | Negative (-) settings will invert the phase. |
| Flg Bal | D100: 0W-D0: | Adjusts the volume balance between the sound that is sent through the flanger (W) and the |
| | 100W | sound that is not sent through the flanger (D). |
| Level | 0–127 | Output Level |

JD-Multi

Recreates the effects included in group A of the JD-800.



| Parameter | Value | Explanation |
|-----------|-----------------------|---|
| | DS - PH - SP - EN | Selects the connection order of the effects. |
| | DS - PH - EN - SP | DS: Distortion |
| | DS - SP - PH - EN | PH: Phaser |
| | DS - SP - EN - PH | SP: Spectrum |
| | DS - EN - PH - SP | EN: Enhancer |
| | DS - EN - SP - PH | _ |
| | PH - DS - SP - EN | _ |
| | PH - DS - EN - SP | |
| | PH - SP - DS - EN | |
| | PH - SP - EN - DS | _ |
| | PH - EN - DS - SP | |
| Seq | PH - EN - SP - DS | <u>_</u> |
| seq | SP - DS - PH - EN | <u>_</u> |
| | SP - DS - EN - PH | <u>_</u> |
| | SP - PH - DS - EN | <u>_</u> |
| | SP - PH - EN - DS | <u>_</u> |
| | SP - EN - DS - PH | _ |
| | SP - EN - PH - DS | _ |
| | EN - DS - PH - SP | _ |
| | EN - DS - SP - PH | _ |
| | EN - PH - DS - SP | _ |
| | EN - PH - SP - DS | _ |
| | EN - SP - DS - PH | _ |
| | EN - SP - PH - DS | |
| DS Switch | OFF, ON | Turns the distortion on/off. |
| | Sets the type of d | |
| | MELLOW DRV | Softer distortion with a slightly darker sound. |
| | OVERDRIVE | Distortion that resembles a vacuum tube amp being driven. |
| DS Type | CRY DRV | Distortion that emphasizes the high end. |
| 71 | MELLOW DST | Gives the feeling of distortion playing through a large amp. |
| | LIGHT DST | Strong distortion with a bright sound. |
| | FAT DIST | Thick distortion that emphasizes the low and high ends. |
| | FUZZ DIST | Distortion that's even more powerful that FAT DIST. |
| DS Drive | 0-100 | Sets the amount of distortion. |
| DS Level | 0-100 | Sets the distortion output level. |
| PH Switch | OFF, ON | Turns the phaser on/off. |
| PH Manual | 50 [Hz]–15.0 [kHz] | Sets the basic frequency from which the sound is modulated with the phaser effect. |
| PH Rate | 0.1–10.0 [Hz] | Sets the cycle of the phaser modulation. |
| PH Depth | 0–100 | Sets the depth of the phaser modulation. |
| PH | 0–100 | Sets the amount of feedback for the phaser. Increasing the value creates a more unusual |
| Resonance | | sound. |

| Parameter | Value | Explanation |
|----------------------|--------------|---|
| PH Mix | 0–100 | Sets the level of the phase-shifted sound. |
| SP Switch | OFF, ON | Turns the spectrum on/off. |
| SP Band Ctrl1 | -15-+15 [dB] | Sets the gain (amount of boost/cut) in the 250 Hz range. |
| SP Band Ctrl2 | -15-+15 [dB] | Sets the gain (amount of boost/cut) in the 500 Hz range. |
| SP Band Ctrl3 | -15-+15 [dB] | Sets the gain (amount of boost/cut) in the 1000 Hz range. |
| SP Band Ctrl4 | -15-+15 [dB] | Sets the gain (amount of boost/cut) in the 2000 Hz range. |
| SP Band Ctrl5 | -15-+15 [dB] | Sets the gain (amount of boost/cut) in the 4000 Hz range. |
| SP Band Ctrl6 | -15-+15 [dB] | Sets the gain (amount of boost/cut) in the 8000 Hz range. |
| SP Width | 1–5 | Sets the bandwidth for changing the levels, common to all bands. |
| EH Switch | OFF, ON | Turns the enhancer on/off. |
| EH Sens | 0–100 | Sets how easily the enhancer effect is applied. |
| EH Mix | 0–100 | Sets the ratio at which the harmonics generated by the enhancer are mixed with the original |
| EI INIIX | | sound. |
| Pan | L64-63R | Changes the pan. |
| Level | 0–127 | Output Level |

Note

| 1/64T | Sixty-fourth-note triplet |
|-------|----------------------------|
| 1/64 | Sixty-fourth note |
| 1/32T | Thirty-second-note triplet |
| 1/32 | Thirty-second note |
| 1/16T | Sixteenth-note triplet |
| 1/32. | Dotted thirty-second note |
| 1/16 | Sixteenth note |
| 1/8T | Eighth-note triplet |
| 1/16. | Dotted sixteenth note |
| 1/8 | Eighth note |
| 1/4T | Quarter-note triplet |
| 1/8. | Dotted eighth note |
| 1/4 | Quarter note |
| 1/2T | Half-note triplet |
| 1/4. | Dotted quarter note |
| 1/2 | Half note |
| 1T | Whole-note triplet |
| 1/2. | Dotted half note |
| 1 | Whole note |
| 2T | Double-note triplet |
| 1. | Dotted whole note |
| 2 | Double note |

PATTERN CHORUS

| Parameter | Value Explanation | | |
|-------------------|--|--|--|
| Туре | → "Chorus Parameters(P.169)" | | |
| | | | |
| Switch | OFF, ON | Turns the chorus on/off. | |
| | Sets the parameters of the selected chorus type. | | |
| Chorus parameters | The availab | le parameters differ depending on the type of chorus you selected in Type. | |
| | → "Chorus Parameters(P.169)" | | |
| Level | 0–127 | Specifies the output level of the sound with chorus applied. | |
| Rev Send | 0–127 | Specifies the send level to the reverb. | |

Chorus Parameters

OFF

Turns the effect off.

Chorus

This is a stereo chorus.

| Parameter | Value | Explanation |
|-----------|-------|---|
| Rate | 0-127 | Adjusts the frequency of modulation. |
| Depth | 0–127 | Adjusts the depth of modulation. |
| Feedback | 0–127 | Adjusts the level of chorus sound that's returned to the input. |

CE-1

This models the classic BOSS CE-1 chorus effect unit.

It provides a chorus sound with a distinctively analog warmth.

| Parameter | Value | Explanation |
|-----------|-------|---------------------------|
| Intensity | 0–127 | Adjusts the chorus depth. |

SDD-320 (DIMENSION D)

This models Roland's DIMENSION D (SDD-320).

It provides a clear chorus sound.

| Parameter | Value | Explanation |
|-----------|---------------------------|--------------------|
| Mode | 1, 2, 3, 4, 1+4, 2+4, 3+4 | Switches the mode. |

Delay

This is a stereo delay.

| Parameter | Value | Explanation |
|-----------|-------------------------------|---|
| Dly Sync | OFF, ON | If this is ON, the delay synchronizes with the tempo. |
| Dly Msec | 1–1300 | Adjusts the delay time from the direct sound until the delay sound is heard. |
| Dly Note | Note | |
| Feedback | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| HF Damp | 200–8000 [Hz], BYPASS (*1) | Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any high frequencies, set this parameter to BYPASS. |

TimeCtrlDly (Time Control Delay)

This is a delay in which the delay time can be varied smoothly.

| Parameter | Value | Explanation |
|--------------|-------------------------------|--|
| Dly Sync | OFF, ON | If this is ON, the delay synchronizes with the tempo. |
| Dly Msec | 1–1300 | Adjusts the delay time from the direct sound until the delay sound is heard. |
| Dly Note | Note | |
| Acceleration | 0–15 | When you change the delay time, this specifies the time over which the current delay time changes to the specified delay time. This affects the speed of pitch change as well as the delay time. |
| Feedback | -98–+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| HF Damp | 200-8000 [Hz], BYPASS (*1) | Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any high frequencies, set this parameter to BYPASS. |

Delay → Trem (delay → tremolo)

Tremolo is applied to the delay sound.

| Parameter | Value | Explanation | |
|------------|------------------------------------|--|--|
| lmmiit | MONAURAL | The input is mono-mixed. | |
| Input | STEREO | The sound is input in stereo. | |
| Dly Sync | OFF, ON | If this is ON, the delay synchronizes with the tempo. | |
| Dly Msec | 1–1300 | Adjusts the delay time from the direct sound until the delay sound is heard. | |
| Dly Note | Note | | |
| Feedback | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase. | |
| HF Damp | 200–8000 [Hz], BYPASS (*1) | Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't | |
| T C | ` ' | want to filter out any high frequencies, set this parameter to BYPASS. | |
| Trm Switch | OFF, ON | Switches the tremolo effect on/off | |
| | This sets how the panning changes. | | |
| | TRI | Triangle wave | |
| Tuna | SQR | Square wave | |
| Trm | SIN | Sine wave | |
| ModWave | SAW1 | Sawtooth wave | |
| | SAW2 | _ | |
| | TRP | Trapezoidal wave | |
| Trm Sync | OFF, ON | If this is on, the tremolo synchronizes with the tempo. | |
| Trm Hz | 0.05-10.00 [Hz] | Adjusts the rate of the tremolo. | |
| Trm Note | Note | | |
| Trm Depth | 0–127 | Adjusts the depth of the tremolo. | |

2Tap PanDly (2Tap Pan Delay)

Delay sound is heard in the two locations you specify.

| Parameter | Value | Explanation |
|------------|-------------------------------|---|
| Dly Sync | OFF, ON | If this is ON, the delay synchronizes with the tempo. |
| Dly Msec | 1–1300 | Adjusts the time until the second delay sound is heard. |
| Dly Note | Note | |
| Feedback | -98–+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| HF Damp | 200–8000 [Hz], BYPASS (*1) | Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any high frequencies, set this parameter to BYPASS. |
| Dly1 Pan | L64-63R | Adjusts the pan position of Delay 1. |
| Dly2 Pan | L64-63R | Adjusts the pan position of Delay 2. |
| Dly1 Level | 0–127 | Adjusts the volume of Delay 1. |
| Dly2 Level | 0–127 | Adjusts the volume of Delay 2. |

3Tap PanDly (3Tap Pan Delay)

Delay sound is heard in the three locations you specify.

| Parameter | Value | Explanation |
|------------------|---------|--|
| Dly Sync | OFF, ON | If this is ON, the delay synchronizes with the tempo. |
| Dly Msec | 1–2600 | Delay time of the third delay sound after the original sound is heard. |
| Dly Note | Note | |

| Parameter | Value | Explanation |
|------------|-------------------------------|---|
| Feedback | -98–+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| HF Damp | 200–8000 [Hz], BYPASS (*1) | Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any high frequencies, set this parameter to BYPASS. |
| Dly1 Pan | L64-63R | Adjusts the pan position of Delay 1. |
| Dly2 Pan | L64-63R | Adjusts the pan position of Delay 2. |
| Dly3 Pan | L64-63R | Adjusts the pan position of Delay 3. |
| Dly1 Level | 0–127 | Adjusts the volume of Delay 1. |
| Dly2 Level | 0–127 | Adjusts the volume of Delay 2. |

JUNO Chorus (JUNO-106 Chorus)

This models the chorus effects of the Roland JUNO-106.

| Parameter | Value | Explanation |
|-------------|--------------------------|--|
| Mode | I, II, I+II, JX I, JX II | Type of Chorus |
| Mode | | I+II: the state where both buttons are pressed at the same time. |
| Noise Level | 0–127 | Volume of noise |

JV Chorus

| Parameter | Value | Explanation |
|--------------------|-----------------|--|
| | OFF | The filter is not used. |
| Filter Type | LPF | This filter cuts off the high frequencies. |
| | HPF | This filter cuts off the low frequencies. |
| Cutoff Freq | 200-8000 [Hz] | Adjusts the center frequency used when the filter cuts a specific frequency region. |
| Pre Delay | 0.0-100.0 [ms] | Adjusts the delay time from when the direct sound plays until the reverb sound is heard. |
| Rate Sync | OFF, ON | When this is ON, the delay synchronizes with the tempo. |
| Rate Hz | 0.05-10.00 [Hz] | Adjusts the frequency of modulation. |
| Rate Note | Note | |
| Depth | 0–127 | Adjusts the depth of modulation. |
| Phase | 0–180 [deg] | Adjusts the depth of the chorus sound. |
| Feedback | 0–127 | Adjusts how much of the sound that is fed into the chorus is returned to the input. |

NOTE

Note 1/64T, 1/64, 1/32T, 1/32, 1/16T, 1/32., 1/16, 1/8T, 1/16., 1/8, 1/4T, 1/8., 1/4, 1/2T, 1/4., 1/2, 1T, 1/2., 1, 2T, 1., 2

(*1) 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz], BYPASS

PATTERN DELAY

| Parameter | Value | Explanation |
|-------------------------|---------------|--|
| Туре | → "Delay Pa | rameters(P.172)" |
| Switch | OFF, ON | Switches the delay on/off. |
| | Configure th | ne parameters of the selected delay type. |
| Delay parameters | The available | e parameters differ depending on the type of delay you selected in Type. |
| | → "Delay Pa | rameters(P.172)" |
| Level | 0–127 | Specifies the output level of the sound with delay applied. |
| Rev Send | 0–127 | Specifies the send level to the reverb. |

Delay Parameters

OFF

Turns the effect off.

Delay

This is a stereo delay.

| Parameter | Value | Explanation |
|-----------|-------------------------------|---|
| Dly Sync | OFF, ON | If this is ON, the delay synchronizes with the tempo. |
| Dly Msec | 1–1300 | Adjusts the delay time from the direct sound until the delay sound is heard. |
| Dly Note | Note | |
| Feedback | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| HF Damp | 200–8000 [Hz], BYPASS (*1) | Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any high frequencies, set this parameter to BYPASS. |

T-Ctrl Dly (Time Control Delay)

This is a delay in which the delay time can be varied smoothly.

| Parameter | Value | Explanation |
|--------------|-------------------------------|---|
| Dly Sync | OFF, ON | If this is ON, the delay synchronizes with the tempo. |
| Dly Msec | 1–1300 | Adjusts the delay time from the direct sound until the delay sound is heard. |
| Dly Note | Note | |
| Acceleration | 0–15 | When you change the delay time, this specifies the time over which the current delay time changes to the specified delay time. This affects the speed of pitch change as well as the delay time. |
| Feedback | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| HF Damp | 200–8000 [Hz], BYPASS (*1) | Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any high frequencies, set this parameter to BYPASS. |

Delay → Trem (delay → tremolo)

Tremolo is applied to the delay sound.

| Parameter | Value | Explanation |
|------------|----------------|--|
| Innut | MONAURAL | The input is mono-mixed. |
| Input | STEREO | The sound is input in stereo. |
| Dly Sync | OFF, ON | If this is ON, the delay synchronizes with the tempo. |
| Dly Msec | 1–1300 | Adjusts the delay time from the direct sound until the delay sound is heard. |
| Dly Note | Note | |
| Feedback | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) |
| recaback | | settings will invert the phase. |
| HF Damp | 200-8000 [Hz], | Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't |
| пг Башр | BYPASS (*1) | want to filter out any high frequencies, set this parameter to BYPASS. |
| Trm Switch | OFF, ON | Switches the tremolo effect on/off |

| Parameter | Value | Explanation | |
|------------------|------------------------------------|---|--|
| | This sets how the panning changes. | | |
| | TRI | Triangle wave | |
| Tum | SQR | Square wave | |
| Trm ModWave | SIN | Sine wave | |
| Modwave | SAW1 | Sawtooth wave | |
| | SAW2 | | |
| | TRP | Trapezoidal wave | |
| Trm Sync | OFF, ON | If this is on, the tremolo synchronizes with the tempo. | |
| Trm Hz | 0.05-10.00 [Hz] | Adjusts the rate of the tremolo. | |
| Trm Note | Note | _ | |
| Trm Depth | 0–127 | Adjusts the depth of the tremolo. | |

2Tap PanDly (2Tap Pan Delay)

Delay sound is heard in the two locations you specify.

| Parameter | Value | Explanation |
|-------------------|-------------------------------|---|
| Dly Sync | OFF, ON | If this is ON, the delay synchronizes with the tempo. |
| Dly Msec | 1–1300 | Adjusts the time until the second delay sound is heard. |
| Dly Note | Note | |
| Feedback | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| HF Damp | 200–8000 [Hz], BYPASS (*1) | Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want to filter out any high frequencies, set this parameter to BYPASS. |
| Dly1 Pan | L64-63R | Adjusts the pan position of Delay 1. |
| Dly2 Pan | L64-63R | Adjusts the pan position of Delay 2. |
| Dly1 Level | 0–127 | Adjusts the volume of Delay 1. |
| Dly2 Level | 0–127 | Adjusts the volume of Delay 2. |

3Tap PanDly (3Tap Pan Delay)

Delay sound is heard in the three locations you specify.

| Parameter | Value | Explanation |
|------------|----------------|--|
| Dly Sync | OFF, ON | If this is ON, the delay synchronizes with the tempo. |
| Dly Msec | 1-2600 | Delay time of the third delay sound after the original sound is heard. |
| Dly Note | Note | |
| Feedback | -98-+98 [%] | Adjusts the proportion of the delay sound that is fed back into the effect. Negative (-) settings will invert the phase. |
| UE Dame | 200-8000 [Hz], | Adjusts the frequency above which sound fed back to the effect is filtered out. If you don't want |
| HF Damp | BYPASS (*1) | to filter out any high frequencies, set this parameter to BYPASS. |
| Dly1 Pan | L64-63R | Adjusts the pan position of Delay 1. |
| Dly2 Pan | L64-63R | Adjusts the pan position of Delay 2. |
| Dly3 Pan | L64-63R | Adjusts the pan position of Delay 3. |
| Dly1 Level | 0–127 | Adjusts the volume of Delay 1. |
| Dly2 Level | 0-127 | Adjusts the volume of Delay 2. |
| Dly3 Level | 0–127 | Adjusts the volume of delay 3. |

| Note | 1/64T, 1/64, 1/32T, 1/32, 1/16T, 1/32., 1/16, 1/8T, 1/16., 1/8, 1/4T, 1/8., 1/4, 1/2T, 1/4., 1/2, 1T, 1/2., 1, 2T, 1., 2 |
|------|--|
| (*1) | 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz], BYPASS |

PATTERN REVERB

| Parameter | Value Explanation | |
|-------------------|---|--|
| Туре | → "Reverb Parameters(P.174)" | |
| Switch | OFF, ON Switches the reverb on/off. | |
| | Configure the parameters of the selected reverb type. | |
| Reverb parameters | The available parameters differ depending on the type of reverb you selected in Type. | |
| | → "Reverb Parameters(P.174)" | |
| Level | 0–127 Specifies the output level of the sound with reverb applied. | |

Reverb Parameters

OFF

Turns the effect off.

INTEGRA7Rev (INTEGRA 7 Reverb)

| Parameter | Value | Explanation |
|-----------|--------------------------------------|---|
| Char | ROOM1, ROOM2, HALL1, HALL2, PLATE | Selects the types of reverb. |
| PreDelay | 0–100 | Adjusts the delay time from when the direct sound plays until the reverb sound is heard. |
| Time | 0.1–10.0 [sec] | Adjusts the decay length of the reverb sound. |
| Density | 0–127 | Adjusts the density of the reverb sound. |
| Diffusion | 0–127 | The greater the change over time in density of the reverb sound, the denser the reverb sounds over time. This effect is especially noticeable with long reverb times. |
| LF Damp | 0–100 | Adjusts the low-frequency portion of the reverb. |
| HF Damp | 0–100 | Adjusts the high-frequency portion of the reverb. |
| Spread | 0–127 | Adjusts the reverb spread. |
| Tone | 0–127 | Adjusts the tonal character of the reverb. |

Warm Hall

| Parameter | Value | Explanation |
|------------------|-----------------------|--|
| PreDelay | 0.0-100.0 | Adjusts the delay time from when the direct sound plays until the reverb sound is heard. |
| Time | 0.3-30.0 [sec] | Adjusts the decay length of the reverb sound. |
| Pre LPF | 16-15000 [Hz], BYPASS | Adjusts the frequency below which to cut the high-frequency portion of the sound fed |
| FIELFF | (*1) | into the reverb. |
| Pre HPF | 16-15000 [Hz], BYPASS | Adjusts the frequency below which to cut the low-frequency portion of the sound fed |
| rienrr | (*2) | into the reverb. |
| PreLpLPF | 16–15000 [Hz], BYPASS | Adjusts the frequency above which to cut the high-frequency portion of the extended |
| гтегрегт | (*1) | reverberation. |
| Diffusion | 0–127 | Adjusts the change in the density of the reverb over time. |
| HF Damp F | 1000-8000 [Hz] (*3) | Adjusts the frequency above which the high-frequency portion of the reverb sound is cut. |
| HF Damp | 0.1–1.0 | Adjusts how much to attenuate the high-frequency portion of the reverb. |
| R | | |

Hall

| Parameter | Value | Explanation |
|-----------|------------------------|--|
| PreDelay | 0.0-100.0 | Adjusts the delay time from when the direct sound plays until the reverb sound is heard. |
| Time | 0–127 | Adjusts the decay length of the reverb sound. |
| Size | 1–8 | Adjusts the size of the room/hall. |
| High Cut | 160-12500 [Hz], BYPASS | Frequency above which the high-frequency portion of the final output sound is cut |
| nigh Cut | (*4) | (BYPASS: no cut) |
| Density | 0–127 | Adjusts the density of the reverb sound. |
| | 0–127 | The greater the change over time in density of the reverb sound, the denser the reverb |
| Diffusion | | sounds over time. |
| | | This effect is especially noticeable with long reverb times. |
| LF Damp F | 50-4000 [Hz] (*5) | Adjusts the frequency below which the low-frequency portion of the reverb sound is cut. |

| Parameter | Value | Explanation |
|-----------|----------------------|--|
| LF Damp G | -36–0 [dB] | Adjusts the LF damp attenuation amount (0: no effect). |
| HF DampF | 4000–12500 [Hz] (*6) | Adjusts the frequency above which the high-frequency portion of the reverb sound is cut. |
| HF Damp | -36-0 [dB] | Adjusts the HF damp attenuation amount (0: no effect). |
| G | | |

GS Reverb

| Parameter | Value | Explanation |
|-----------|---|---|
| | ROOM1, | This selects the reverb type. |
| | ROOM2, | |
| | ROOM3, | |
| Char | HALL1, | |
| Char | HALL2, | |
| | PLATE, | |
| | DELAY, | |
| | PAN-DELAY | |
| Pre LPF | 0–7 | Adjusts the amount of high-frequency attenuation for the sound fed into the reverb. |
| Time | 0–127 Adjusts the decay length of the reverb sound. | |
| Feedback | 0–127 | Adjusts the level at which the reverb sound is returned to the input. |

SRV-2000

| Parameter | Value | Explanation |
|-------------------|--|---|
| Selection | R0.3, R1.0, R7.0, R15, R22, R26, R32, R37, H15, H22, H26, H32, H37, P-B, P-A | Selects the type of reverb offered by the Roland SRV-2000 digital reverb. |
| PreDelay | 0–160 | Adjusts the delay time from when the direct sound plays until the reverb sound is heard. |
| Time | 0.1–99.0 [sec] | Adjusts the decay length of the reverb sound. |
| HF Damp | 0.05-1.00 | Adjusts the high-frequency portion of the reverb. |
| Density | 0–9 | Adjusts the density of the late reverberation. |
| Attack | 0–9 | Adjusts the gain of the early reflections. |
| Gain | | |
| Attack | 0–9 | Adjusts the time of the early reflections. |
| Time | | |
| ER Density | 0–9 | Adjusts the density of the early reflections. |
| ER Level | 0–99 | Adjusts the volume of the early reflections. |
| Low Freq | 0.04–1.00 [kHz] | Sets the center frequency of the low range. |
| Low Gain | -24-+12 [dB] | Adjusts the boost/cut of the low frequency range. |
| Mid Freq | 0.25–9.99 [kHz] | Sets the center frequency of the mid range. |
| Mid Gain | -24-+12 [dB] | Adjusts the amount of boost/cut of the mid-frequency range. |
| Mid Q | 0.2–9.0 | Sets the bandwidth of the mid-frequency range. Higher values make the bandwidth narrower. |
| HighFreq | 0.80–9.99 [kHz] | Sets the center frequency of the high range. |
| HighGain | -24-+12 [dB] | Adjusts the boost/cut of the high frequency range. |
| High Q | 0.2–9.0 | Sets the bandwidth of the high frequency range. Higher values make the bandwidth narrower. |

SRV-2000NL (NON-LINEAR)

| Parameter | Value | Explanation |
|--|--|--|
| PreDelay | 0–120 | Adjusts the delay time from when the direct sound plays until the reverb sound is heard. |
| ReverbTime | 0.9-+99.0 [sec] | Adjusts the decay length of the reverb sound. |
| GateTime | 10-450 | Adjusts the time it takes to cut off the reverb once the reverb begins to sound. |
| Low Freq | 0.04-1.00 [kHz] | Sets the center frequency of the low range. |
| Low Gain | -24-+12 [dB] | Adjusts the boost/cut of the low frequency range. |
| Mid Freq 0.25–9.99 [kHz] Sets the center frequency of the mid range. | | Sets the center frequency of the mid range. |
| Mid Gain | -24-+12 [dB] Adjusts the amount of boost/cut of the mid-frequency range. | |
| Mid Q | 0.2-9.0 | Sets the bandwidth of the mid-frequency range. |
| Wild Q | | Higher values make the bandwidth narrower. |
| HighFreq | 0.80-9.99 [kHz] | Sets the center frequency of the high range. |
| HighGain | -24-+12 [dB] | Adjusts the boost/cut of the high frequency range. |

| Parameter | Value | Explanation |
|-----------|---------|---|
| Hi Q | 0.2-9.0 | Sets the bandwidth of the high frequency range. |
| niQ | | Higher values make the bandwidth narrower. |

GM2 Reverb

| Parameter | Value | Explanation |
|-----------|---|---|
| Char | SMALL ROOM, MEDIUM ROOM, LARGE ROOM, MEDIUM HALL, LARGE HALL, | This selects the reverb type. |
| | PLATE | Although the desired of the desired |
| Time | 0–127 | Adjusts the decay length of the reverb sound. |

Gated Reverb

| Parameter | Value | Explanation | |
|------------------|---|--|--|
| | NORMAL | This is a standard gate reverb. | |
| Tuno | REVERSE | This is a reverb for which the sound ramps up in volume. | |
| Type | SWEEP1 | The reverb sound moves from right to left. | |
| | SWEEP2 | The reverb sound moves from left to right. | |
| Pre Delay | 0.0–100.0 [ms] Adjusts the delay time from when the direct sound plays until the reverb sound is heard. | | |
| Gate Time | 5–500 [ms] | Adjusts the decay length of the reverb sound. | |

Shimmer Reverb

| Parameter | Value | Explanation |
|------------------------|--------------|---|
| Low Damp | -50-+50 | Adjusts how much to attenuate the low-frequency portion of the reverb. |
| High Damp | -50-+50 | Adjusts how much to attenuate the high-frequency portion of the reverb. |
| Time | 0.1-10.0 [s] | Adjusts the decay length of the reverb sound. |
| Density | 1–10 | Adjusts the density of the reverb sound. |
| Pre Delay | 0-200 [ms] | Adjusts how long it takes until the reverb sound is heard, after the direct sound plays. |
| Modulation Rate | 0–100 | Adjusts the speed at which the reverb sound is modulated. |
| Modulation | 0–100 | Adjusts the depth to which the reverb sound is modulated. |
| Depth | | |
| Pitch1 Coarse | -24-+24 | Adjusts the amount of pitch shift applied for pitch shift 1 (in semitones). |
| | [semi] | |
| Pitch2 Coarse | -24-+24 | Adjusts the amount of pitch shift applied for pitch shift 2 (in semitones). |
| Pittiiz Coarse | [semi] | |
| Pitch1 Feedback | -98–+98 [%] | Adjusts the proportion of the delay sound that is fed back into pitch shift 1. Negative (-) |
| | | settings invert the phase. |
| Pitch2 Feedback | -98–+98 [%] | Adjusts the proportion of the delay sound that is fed back into pitch shift 2. Negative (-) |
| | | settings invert the phase. |
| Level 1 | 0–100 | Adjusts the volume of pitch shift 1. |
| Level 2 | 0–100 | Adjusts the volume of pitch shift 2. |

NOTE

- (*1) 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000, 10000, 12500, 15000 [Hz], BYPASS
- (*2) BYPASS, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000, 10000, 12500, 15000 [Hz]
- (*3) 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz]
- (*4) 160, 200, 250, 320, 400, 500, 640, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000, 6400, 8000, 10000, 12500 [Hz], BYPASS
- (*5) 50, 64, 80, 100, 125, 160, 200, 250, 320, 400, 500, 640, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000 [Hz]
- (*6) 4000, 5000, 6400, 8000, 10000, 12500 [Hz]

Sound List

Waveform List(P.177)

- **PCM Tone(P.177)**
- Rhythm Set(P.178)
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Tone List(P.188)

- SH-4d OSC model(P.188)
- SH-3d OSC model(P.194)
- Sync OSC model(P.196)
- SH-101d OSC model(P.197)
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Rhythm Set List(P.204)

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Waveform List

PCM Tone(P.177)

Rhythm Set(P.178)

Wavetable (P.186)

PCM Tone

| No. | Name |
|-----|--------------|
| 001 | Sine |
| 002 | Cosine |
| 003 | JP-8 Sine |
| 004 | VS-Triangle |
| 005 | 700 Triangle |
| 006 | JP-8 Tri |
| 007 | MG Tri Saw |
| 008 | Ramp Wave |
| 009 | Digital Saw |
| 010 | Fat Square |
| 011 | JX-8P Pulse |
| 012 | SH-101SubOSC |
| 013 | SubOSC Wave1 |
| 014 | SubOSC Wave2 |
| 015 | SubOSC Wave3 |
| 016 | Cutters |
| 017 | Nasty |
| 018 | Wave Table |

| No. | Name |
|-----|--------------|
| 019 | Wally Wave |
| 020 | Brusky Wave |
| 021 | 5th Wave |
| 022 | Sync Wave |
| 023 | FeedbackWave |
| 024 | Vib Wave |
| 025 | Digi Wave 1 |
| 026 | Digi Wave 2 |
| 027 | FM Bell |
| 028 | Ballad Organ |
| 029 | Organ 1 |
| 030 | Organ 2 |
| 031 | Organ 3 |
| 032 | Organ 4 |
| 033 | Bell Wave 1 |
| 034 | Bell Wave 2 |
| 035 | DIGI Bell |
| 036 | DIGI Bell + |
| 037 | X-Mod Wave |
| 038 | FM Brass |
| 039 | White Noise |
| 040 | Pink Noise |
| 041 | MMG Pink Nz |
| 042 | Metal OSC |
| 043 | Warm Pad |
| 044 | JD Piano A |
| 045 | JD Piano C |
| 046 | Wurly mp |
| 047 | Wurly mf |
| 048 | Wurly ff |
| 049 | Kalimba |
| 050 | Xylophone |
| 051 | Marimba |
| 052 | Glocken |
| 053 | Glockenspiel |

Rhythm Set

| No. | Name |
|-----|--------------|
| 001 | Sine |
| 002 | Cosine |
| 003 | JP-8 Sine |
| 004 | VS-Triangle |
| 005 | 700 Triangle |
| 006 | JP-8 Tri |
| 007 | MG Tri Saw |
| 008 | Ramp Wave |
| 009 | Digital Saw |
| 010 | Fat Square |
| 011 | JX-8P Pulse |
| 012 | SH-101SubOSC |
| 013 | SubOSC Wave1 |
| 014 | SubOSC Wave2 |
| 015 | SubOSC Wave3 |
| 016 | Cutters |
| 017 | Nasty |
| 018 | Wave Table |
| 019 | Wally Wave |
| 020 | Brusky Wave |
| 021 | 5th Wave |
| 022 | Sync Wave |

| M. | N |
|------------|---------------------------|
| No. 023 | Name FeedbackWave |
| 024 | Vib Wave |
| 025 | Digi Wave 1 |
| 026 | Digi Wave 1 |
| 027 | FM Bell |
| 028 | Ballad Organ |
| 029 | Organ 1 |
| 030 | Organ 2 |
| 031 | Organ 3 |
| 032 | Organ 4 |
| 033 | Bell Wave 1 |
| 034 | Bell Wave 2 |
| 035 | DIGI Bell |
| 036 | DIGI Bell + |
| 037 | X-Mod Wave |
| 038 | FM Brass |
| 039 | White Noise |
| 040 | Pink Noise |
| 041 | MMG Pink Nz |
| 042 | Metal OSC |
| 043 | 808 Kick 1 |
| 044 | 808 Kick 2 |
| 045 | 808 Kick 3 |
| 046 | 808 Kick 4 |
| 047 | 909 Kick 1 |
| 048 | 909 Kick 2 |
| 049 | 909 Kick 3 |
| 050 | 909 Kick 4 |
| 051 | 909 Kick 5 |
| 052 | 909 Kick 6 |
| 053 | 707 Kick 1 |
| 054 | 707 Kick 2 |
| 055 | 606 Kick 1 |
| 056 | 606 Kick 2 |
| 057 | Condor 808 K |
| 058 | Super 808 K |
| 059 | Ana Whack K |
| 060 | Sat Kick |
| 061 | DAPunchyKick |
| 062 | DuffLoFiKick |
| 063 | EDM Kick 1 |
| 064 | EDM Kick 2 |
| 065 | EDM Kick 3 |
| 066 | BigroomKick1 |
| 067 | BigroomKick2 |
| 068 | Dubstep Kick |
| 069 | HardlifeKick |
| 070 | RoughLayer K |
| 071 | Smallpunch K Superthump K |
| 072 | Synth Kick 1 |
| 073 | |
| 074 | Synth Kick 2 Synth Kick 3 |
| 075 076 | |
| | Synth Kick 4 FM Kick 1 |
| 077 | FM Kick 1 FM Kick 2 |
| 078 | |
| 079 | Dirt Kick |
| 080 | Dirtbag Kick |
| 081 | Futurelap K Lo-Bit Kick |
| 082 083 | Lo-Bit Kick Lo-Fi Kick 1 |
| | MG888 Regi K |
| 084 | ואום מסט הבין ה |

| No. | Name |
|------------|-----------------------------|
| 085 | Modular Kick |
| 086 | Punchcake K |
| 087 | Scooppunch K |
| 088 | Stacked Kick |
| 089 | Sucker Kick |
| 090 | Worker Kick |
| 091 | HipHop Kick |
| 092 | Thickstack K |
| 093 | Tube Kick |
| 094 | 106 Kick |
| 095 | Lo-Fi Kick 2 |
| 096 | Power Kick |
| 097 | LoBit Kick1P |
| 098 | JungleKick P |
| 099 | Reg.Kick f |
| 100 | Reg.Kick ff |
| 101 | Reg.Kick ffP |
| 102 | 808 Snare 1 |
| 103 | 808 Snare 2 |
| 104 | 808 Snare 3 |
| 105 | 808 Snare 4 |
| 106 | 808 Snare 5 |
| 107 | 808 Snare 6 |
| 108 | 909 Snare 1 |
| 109 | 909 Snare 2 |
| 110 | 909 Snare 3 |
| 111 | 909 Snare 4 |
| 112 | 909 Snare 5 |
| 113 | 909 Snare 6 |
| 114 | 909 Snare 7 |
| 115 | 909 Snare 8 |
| 116 | 909 Snare 9 |
| 117 | 707 Snare 1 |
| 118 | 707 Snare 2 |
| 119 | 606 Snare 1 |
| 120 | 606 Snare 2 |
| 121 | Alt Snare |
| 122 | Poster Snare |
| 123 | Dry Snare |
| 124 | Lofipop Snr MG888 Snare1 |
| 125 126 | Transist Snr |
| 127 | Driven 606SD |
| 128 | Hi Snare |
| 129 | FM Snare 1 |
| 130 | FM Share 2 |
| 131 | FM Share 3 |
| 132 | Cubangrit SD |
| 133 | Ring Snare |
| 134 | Snr Scratch |
| 135 | Sick Snare |
| 136 | Trap Snare |
| 137 | Dubstep Snr |
| 138 | Futurebs SD1 |
| 139 | 106 Snare |
| 140 | Smakk Snare |
| 141 | Woodskin Snr |
| 142 | Dopehitta SD |
| 143 | LofihavanaSD |
| 144 | Skinsmack SD |
| 145 | SmackBack SD |
| 146 | SmrtpunchrSD |
| | • |

| N. | N |
|------------|----------------------------|
| No. | Name |
| 147 148 | Snappy Snare DanceHall SD |
| 149 | Sat Snare |
| 150 | Purephat Snr |
| 151 | Lo-Bit Snr P |
| 152 | Jungle Snr P |
| 153 | Jungle Snr |
| 154 | Futurebs SD2 |
| 155 | Analog Snr 1 |
| 156 | Analog Snr 2 |
| 157 | Analog Snr 3 |
| 158 | Chiptune SD1 |
| 159 | Chiptune SD2 |
| 160 | MG888 Tr Rim |
| 161 | Deep End Snr |
| 162 | MG888 Snare2 |
| 163 | Snr & Rim 1 |
| 164 | Snr & Rim 2 |
| 165 | EDM Snr&Clap |
| 166 | DA Punchy SD |
| 167 | Snr&DistClap |
| 168 | Snr&RealClap |
| 169 | Snr&SynClap |
| 170 | 3Blend Snare |
| 171 | EDM Snare |
| 172 | SD&FingerSnp |
| 173 | Reg.Snr1 p |
| 174 | Reg.Snr1mf |
| 175 | Reg.Snr1 f |
| 176 | Reg.Snr1ff |
| 177 | Reg.Snr1ff P |
| 178 | Reg.Snr2 p |
| 179 | Reg.Snr2 f |
| 180 | Reg.Snr2ff P |
| 181 | 808 Rimshot |
| 182 | 909 Rimshot |
| 183 | 707 Rimshot |
| 184 | 8-Bit Slap |
| 185 | Lo-Fi Rim |
| 186 | Wild Stick |
| 187 | 808 CI HiHat |
| 188 | 808 CI&Op HH |
| 189 | 909 CI HH 1 909 CI HH 2 |
| 190 | 707 CI HiHat |
| 191 192 | 606 CIHH 1 |
| 193 | 606 CIHH 2 |
| 194 | 606 CIHH 3 |
| 195 | 606 CIHH 4 |
| 196 | 606 CIHH 5 |
| 197 | 606 CIHH 6 |
| 198 | FM CI HiHat1 |
| 199 | FM CI HiHat2 |
| 200 | ALT CI HH |
| 201 | Dryice HiHat |
| 202 | FilterlushHH |
| 203 | NYC HiHat |
| 204 | OD HiHat |
| 205 | Vibey HiHat |
| 206 | Analog CI HH |
| 207 | Noise CI HH |
| 208 | Sat CI HH |
| | |

| No. | Name |
|-----|--------------|
| 209 | CompClosedHH |
| 210 | Keep It CIHH |
| 211 | Simple CI HH |
| 212 | Solid HiHat |
| 213 | VR HiHat |
| 214 | Dry Cl HiHat |
| 215 | Lo-Bit CI HH |
| 216 | Reg.CHH p |
| 217 | Reg.CHH mf |
| 218 | Reg.CHH f |
| 219 | Reg.CHH ff |
| 220 | Rock CIHH1 p |
| 221 | Rock CIHH1mf |
| 222 | Rock CIHH1 f |
| 223 | Rock CIHH1 p |
| 224 | Rock CIHH2mf |
| 225 | Rock CIHH2 f |
| 226 | Jazz CIHH1 p |
| 227 | Jazz CIHH1mf |
| 228 | Jazz CIHH1 f |
| 229 | Jazz CIHH2 p |
| 230 | Jazz CIHH2mf |
| 231 | Jazz CIHH2 f |
| 232 | CI HiHat |
| 233 | 808 Op HiHat |
| 234 | 909 OpHiHat1 |
| 235 | 909 OpHiHat2 |
| 236 | 909 OpHiHat3 |
| 237 | 707 Op HiHat |
| 238 | 606 OpHH 1 |
| 239 | 606 OpHH 2 |
| 240 | 606 OpHH 3 |
| 241 | 606 OpHH 4 |
| 242 | 606 OpHH 5 |
| 243 | 606 OpHH 6 |
| 244 | Dirt Op HH |
| 245 | Analog Op HH |
| 246 | Noise Op HH |
| 247 | Sat Op HH |
| 248 | Grunt Op HH |
| 249 | Lo-Bit Op HH |
| 250 | Rideout Cym |
| 251 | Reg.OHH mf |
| 252 | Reg.OHH f |
| 253 | Reg.OHH ff |
| 254 | Rock OpHH p |
| 255 | Rock OpHH f |
| 256 | Jazz OpHH p |
| 257 | Jazz OpHH mf |
| 258 | Jazz OpHH f |
| 259 | Op HiHat |
| 260 | Reg.PHH mf |
| 261 | Reg.PHH f |
| 262 | Jazz PdHH p |
| 263 | Jazz PdHH f |
| 264 | Pedal HiHat |
| 265 | 808 Hi Tom |
| 266 | 808 Mid Tom |
| 267 | 808 Low Tom |
| 268 | 909 Hi Tom |
| 269 | 909 Mid Tom |
| 270 | 909 Low Tom |
| | |

| Na | Name |
|------------|-----------------|
| No. 271 | Name 707 Hi Tom |
| 271 | 707 Mid Tom |
| 273 | 707 Low Tom |
| 274 | 606 Tom 1 |
| 275 | 606 Tom 2 |
| 276 | 606 Tom 3 |
| 277 | 606 Tom 4 |
| 278 | Reg.1 H Tom |
| 279 | Reg.1 M Tom |
| 280 | Reg.1 FLTom |
| 281 | Reg.2 Tom 1 |
| 282 | Reg.2 Tom 2 |
| 283 | Reg.2 Tom 3 |
| 284 | Reg.2 Tom 4 |
| 285 | Reg.2 Tom 5 |
| 286 | 808 CrashCym |
| 287 | 909 Cr Cym 1 |
| 288 | 909 Cr Cym 2 |
| 289 | 909 Cr Cym 3 |
| 290 | 909 Cr Cym 4 |
| 291 | 707 CrashCym |
| 292 | 606 Cymbal 1 |
| 293 | 606 Cymbal 2 |
| 294 | Glassy Cym |
| 295 | Rock CrCym1p |
| 296 | Rock CrCym1f |
| 297 | Rock CrCym2p |
| 298 | Rock CrCym2f |
| 299 | Jazz CrCym p |
| 300 | Jazz CrCym f |
| 301 | Crash Cymbal |
| 302 | Crash |
| 303 | 909 RideCym1 |
| 304 | 909 RideCym2 |
| 305 | 909 RideCym3 |
| 306 | 707 Ride Cym |
| 307 | Rock RdCym1p |
| 308 | Rock RdCym1f |
| 309 | Rock RdCym2p |
| 310 | Rock RdCym2f |
| 311 | Jazz RdCym p |
| 312 | Jazz RdCymmf |
| 313 | Jazz RdCym f |
| 314 | Ride Ride Bell |
| 315 | Rock China |
| 316 | China Cym |
| 317 318 | Rock Splash |
| 319 | 808 Clap |
| 320 | 909 Clap |
| 321 | 707 Clap |
| 322 | Clap Stop |
| 323 | Clap |
| 324 | Noisegranule |
| 325 | EDM Clap |
| 326 | Flump Clap |
| 327 | DirtypitchCP |
| 328 | MG888 Clap 1 |
| 329 | MG888 Clap 2 |
| 330 | Overlayer CP |
| 331 | Powerclap CP |
| 332 | Ripped Snare |
| | |

| No. | Name |
|------------|--------------|
| 333 | Analog Clap |
| 334 | Extendo Clap |
| 335 | Craaak |
| 336 | Clp&FingSnap |
| 337 | 808 Cowbell |
| 338 | 707 Cowbell |
| 339 | AnalogPerc 1 |
| 340 | AnalogPerc 2 |
| 341 | AnalogPerc 3 |
| 342 | FM Low Tom |
| 343 | BrightSyn CB |
| 344 | PC-2 Cowbell |
| 345 | Live Cowbell |
| 346 | Cowbell |
| 347 | 707 Tamb |
| 348 | Foleytamb |
| 349 | Tambourine |
| 350 | 808 Claves |
| 351 | MG888 Claves |
| 352 | Analog Snr 4 |
| 353 | Future Block |
| 354 | Blockorganic |
| 355 | 808 HiConga |
| 356 | 808 MidConga |
| 357 | 808 LowConga |
| 358 | Analog Snr 5 |
| 359 | 808 Maracas |
| 360 | Maracas 1 |
| 361 | Maracas 2 |
| 362 | Shake |
| 363 | CrunchShaker |
| 364 | Wideshake |
| 365 | FM Beep |
| 366 | FM CrashCym |
| 367 | FM Op HiHat |
| 368 | FM Clap |
| 369 | FM Hi Tom |
| 370 | FM Mid Tom |
| 371 | AnalogPerc 4 |
| 372 | AnalogPerc 5 |
| 373 | AnalogPerc 6 |
| 374 | AnalogPerc 7 |
| 375 | Bounce |
| 376 | FX Blipper |
| 377 | Perc Ping |
| 378 | FM Wobble |
| 379 | MG888 Rim |
| 380 | Ana MtlPerc1 |
| 381 | Ana MtlPerc2 |
| 382 | AnalogPerc 8 |
| 383 | AnalogPerc 9 |
| 384 | AnalogPerc10 |
| 385 | Chiptune FX1 |
| 386 | Chiptune FX2 |
| 387 | Chiptune FX3 |
| 388 | Dr.Beat |
| 389 | Hi DistShort |
| 390 | Modular FX 1 |
| 391 | Modular FX 2 |
| 392 | Mental Perc |
| | PC-2 FX 1 |
| 393 394 | PC-2 FX 1 |
| 374 | FC-21A 2 |

| N | N |
|------------|----------------------------|
| No. | Name |
| 395 | PC-2 FX 3 PC-2 FX 4 |
| 396 | PC-2 FX 4 PC-2 Spacers |
| 397 398 | Perc Box |
| 399 | Spring Blip |
| 400 | Syndrip |
| 401 | Wupwup |
| 402 | Trap Synth 1 |
| 403 | Trap Synth 2 |
| 404 | Tussle |
| 405 | Perc Sunrise |
| 406 | Chillrim |
| 407 | Snappy |
| 408 | Finger Snap |
| 409 | FoleysnapsSD |
| 410 | Block Hi |
| 411 | Block Lo |
| 412 | Click Box |
| 413 | Udu Pot Long |
| 414 | Udu Pot Mute |
| 415 | Udu PotShort |
| 416 | Samba Perc |
| 417 | Woodstrike |
| 418 | Chekere |
| 419 | Bongo Hi Mt |
| 420 | Bongo Hi Slp |
| 421 | Bongo Hi Op |
| 422 | Bongo Lo Op |
| 423 424 | Bongo Lo SIp Conga Hi Mt |
| 425 | Conga Lo Mt |
| 426 | Conga Hi Slp |
| 427 | Conga Lo Slp |
| 428 | Conga Hi Op |
| 429 | Conga Lo Op |
| 430 | Conga SIp Op |
| 431 | Conga Efx |
| 432 | Conga Thumb |
| 433 | Conga 2H Op |
| 434 | Conga 2H Mt |
| 435 | Conga 2H Slp |
| 436 | Conga 2L Op |
| 437 | Conga 2L Mt |
| 438 | Timbale 1 |
| 439 | Timbale 2 |
| 440 | Timbale 3 |
| 441 | Timbale 4 |
| 442 | Timbles LoOp |
| 443 | Timbles LoMt |
| 444 | TimbalesHand Timbales Pier |
| 445 | Timbales Rim TrabGidaStick |
| 446 | TmbSideStick TablaBayam 1 |
| 447 | TablaBayam 2 |
| 448 | TablaBayam 3 |
| 450 | TablaBayam 4 |
| 451 | TablaBayam 5 |
| 452 | TablaBayam 6 |
| 453 | TablaBayam 7 |
| 454 | O'Skool Hit |
| 455 | Orch. Hit |
| 456 | Punch Hit |
| | |

| No. | Name |
|-----|--------------|
| 457 | Philly Hit |
| 458 | ClassicHseHt |
| 459 | Tao Hit |
| 460 | TB Blip |
| 461 | Brass Hit |
| 462 | Water Drop |
| 463 | MetallicShot |
| 464 | Boing |
| 465 | Freeze |
| 466 | Trap Horn |
| 467 | Glass |
| 468 | Metal Bang |
| 469 | Spoon Hit |
| 470 | Tube FX |
| 471 | Vinyl Noise |
| 472 | Metronome 1 |
| 473 | Metronome 2 |
| 474 | MC500 Beep 1 |
| 475 | MC500 Beep 2 |
| 476 | Vibe AtkNz |
| 477 | SteelGtrNz |
| 478 | TVF Trig |
| 479 | Digi Attack |
| 480 | Chamberclick |
| 481 | DC |

Wavetable

| No. | Name |
|-----|--------------|
| 001 | 4waves morph |
| 002 | Sine Garden |
| 003 | SineToDist 1 |
| 004 | SineToDist 2 |
| 005 | Sine Blend |
| 006 | Sqr To Saw |
| 007 | Saw Sync |
| 008 | Morph Mode |
| 009 | EffEmm One |
| 010 | FM Bells |
| 011 | EffEmm Two |
| 012 | FM Parade |
| 013 | FM Sweep |
| 014 | FM Oct Mod |
| 015 | Circuit |
| 016 | Inharmonic |
| 017 | Can Tank |
| 018 | Spect2 |
| 019 | UniSqr Spctl |
| 020 | Saw Spectral |
| 021 | Hubble |
| 022 | Harmonic |
| 023 | Uni Sqr Warp |
| 024 | Rhythm Warp |
| 025 | Mosquito |
| 026 | Vowel Sweep |

| No. | Name |
|---------------------------------|--------------|
| 027 | Voxylor |
| 028 | Future Acid |
| 029 | Guitar Sweep |
| 030 | IntrmissivWT |
| 027 028 029 030 031 | Ripple |

Tone List

SH-4d OSC model (P.188)

SH-3d OSC model(P.194)

Sync OSC model (P.196)

SH-101d OSC model (P.197)

JUNO-106 OSC model (P.198)

Cross FM OSC model (P.198)

Ring OSC model(P.200)

Wavetable OSC model (P.201)

Chord OSC model (P.202)

Drawing OSC model (P.203)

PCM OSC model(P.203)

SH-4d OSC model

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 001 | Brilliant | 38:Synth PolyKey | 88 | 64 | 001 |
| 002 | Synth Bass 1 | 21:Synth Bass | 88 | 64 | 002 |
| 003 | Synth Lead 1 | 34:Synth Lead | 88 | 64 | 003 |
| 004 | Willkommen! | 36:Synth Pad/Str | 88 | 64 | 004 |
| 005 | November 2019 | 36:Synth Pad/Str | 88 | 64 | 005 |
| 006 | CollapsedCircuit | 39:Synth FX | 88 | 64 | 006 |
| 007 | Echoes from Eons | 38:Synth PolyKey | 88 | 64 | 007 |
| 800 | SK Seqsy Pluck | 40:Synth Seq/Pop | 88 | 64 | 800 |
| 009 | 1901 Bass | 21:Synth Bass | 88 | 64 | 009 |
| 010 | JU OSC 7th Stack | 34:Synth Lead | 88 | 64 | 010 |
| 011 | Undulation Rate | 39:Synth FX | 88 | 64 | 011 |
| 012 | 28 Saw Hit & Run | 44:Hit | 88 | 64 | 012 |
| 013 | Brasscal | 35:Synth Brass | 88 | 64 | 013 |
| 014 | Recently Bass | 21:Synth Bass | 88 | 64 | 014 |
| 015 | Bend Chord | 38:Synth PolyKey | 88 | 64 | 015 |
| 016 | Wheel Drums | 39:Synth FX | 88 | 64 | 016 |
| 017 | Mod Apart Pluck | 34:Synth Lead | 88 | 64 | 017 |
| 018 | Cinematic | 36:Synth Pad/Str | 88 | 64 | 018 |
| 019 | SH-4d Pulse | 40:Synth Seq/Pop | 88 | 64 | 019 |
| 020 | Minor Riser | 42:Pulsating | 88 | 64 | 020 |
| 021 | Dark Wave | 38:Synth PolyKey | 88 | 64 | 021 |
| 022 | Pls Arpg Me <3 | 40:Synth Seq/Pop | 88 | 64 | 022 |
| 023 | Fragile Pad | 36:Synth Pad/Str | 88 | 64 | 023 |
| 024 | Double JX Pad | 36:Synth Pad/Str | 88 | 64 | 024 |
| 025 | Inf Down | 42:Pulsating | 88 | 64 | 025 |
| 026 | Rotary Organ | 38:Synth PolyKey | 88 | 64 | 026 |
| 027 | 5th Stack Lead | 34:Synth Lead | 88 | 64 | 027 |
| 028 | Brite Syn Brass | 35:Synth Brass | 88 | 64 | 028 |
| 029 | Switch On | 39:Synth FX | 88 | 64 | 029 |
| 030 | Super Super | 34:Synth Lead | 88 | 64 | 030 |
| 031 | Strange Point | 38:Synth PolyKey | 88 | 64 | 031 |
| 032 | Synth Hall | 36:Synth Pad/Str | 88 | 64 | 032 |
| 033 | 7 Lead | 34:Synth Lead | 88 | 64 | 033 |
| 034 | Kick LFO Bass 2 | 21:Synth Bass | 88 | 64 | 034 |
| 035 | PulseStack Stab1 | 44:Hit | 88 | 64 | 035 |
| 036 | PulseStack Stab2 | 44:Hit | 88 | 64 | 036 |
| 037 | Perfect Rise | 36:Synth Pad/Str | 88 | 64 | 037 |
| 038 | Alternate | 44:Hit | 88 | 64 | 038 |
| 039 | Progressive Plk | 40:Synth Seq/Pop | 88 | 64 | 039 |
| 040 | Pulsating Pad | 36:Synth Pad/Str | 88 | 64 | 040 |
| 041 | Matrix Sweep FX | 39:Synth FX | 88 | 64 | 041 |
| | | | | | |

| No. | Name | Category | MSB | LSB | PC |
|------------|-----------------------------------|--------------------------------------|----------|----------|------------|
| 042 | Step F Lead | 42:Pulsating | 88 | 64 | 042 |
| 043 | PsyTrance Bass 2 | 21:Synth Bass | 88 | 64 | 043 |
| 044 | Electro Bow | 34:Synth Lead | 88 | 64 | 044 |
| 045 | 808 Long Bass | 21:Synth Bass | 88 | 64 | 045 |
| 046 | Black Hole Pluck | 38:Synth PolyKey | 88 | 64 | 046 |
| 047 | Techy Stab | 44:Hit | 88 | 64 | 047 |
| 048 | Saw&Pulse Bass | 21:Synth Bass | 88 | 64 | 048 |
| 049 | Synth Pad/Str 1 | 36:Synth Pad/Str | 88 | 64 | 049 |
| 050 | Synth Pad/Str 2 | 36:Synth Pad/Str | 88 | 64 | 050 |
| 051 | Synth Pad/Str 3 | 36:Synth Pad/Str | 88 | 64 | 051 |
| 052 | Synth Pad/Str 4 | 36:Synth Pad/Str | 88 | 64 | 052 |
| 053 | Synth Pad/Str 5 | 36:Synth Pad/Str | 88 | 64 | 053 |
| 054 | Synth Pad/Str 6 | 36:Synth Pad/Str | 88 | 64 | 054 |
| 055 | Synth PolyKey 1 | 38:Synth PolyKey | 88 | 64 | 055 |
| 056 | Synth PolyKey 2 | 38:Synth PolyKey | 88 | 64 | 056 |
| 057 | Synth Lead 2 | 34:Synth Lead | 88 | 64 | 057 |
| 058 | Synth Bass 2 | 21:Synth Bass | 88 | 64 | 058 |
| 059 | Synth Bass 3 | 21:Synth Bass | 88 | 64 | 059 |
| 060 | Synth Pad/Str 7 | 36:Synth Pad/Str | 88 | 64 | 060 |
| 061 | Synth Pad/Str 8 | 36:Synth Pad/Str | 88 | 64 | 061 |
| 062 | Synth Pad/Str 9 | 36:Synth Pad/Str | 88 | 64 | 062 |
| 063 | Pulsating 1 | 42:Pulsating | 88 | 64 | 063 |
| 064 | Synth Pad/Str 10 | 36:Synth Pad/Str | 88 | 64 | 064 |
| 065 | Synth Pad/Str 11 | 36:Synth Pad/Str | 88 | 64 | 065 |
| 066 | Synth Pad/Str 12 | 36:Synth Pad/Str | 88 | 64 | 066 |
| 067 | Synth Pad/Str 13 Synth Pad/Str 14 | 36:Synth Pad/Str 36:Synth Pad/Str | 88 88 | 64 64 | 067 068 |
| 068 069 | Synth Pad/Str 15 | 36:Synth Pad/Str | 88 | 64 | 069 |
| 070 | Bell 1 | 14:Bell | 88 | 64 | 070 |
| 070 | Synth Brass 1 | 35:Synth Brass | 88 | 64 | 070 |
| 071 | Synth Bass 4 | 21:Synth Bass | 88 | 64 | 071 |
| 073 | Synth Bass 5 | 21:Synth Bass | 88 | 64 | 072 |
| 074 | Synth Bass 6 | 21:Synth Bass | 88 | 64 | 074 |
| 075 | Synth PolyKey 3 | 38:Synth PolyKey | 88 | 64 | 075 |
| 076 | Bell 2 | 14:Bell | 88 | 64 | 076 |
| 077 | Synth Lead 3 | 34:Synth Lead | 88 | 64 | 077 |
| 078 | Synth Lead 4 | 34:Synth Lead | 88 | 64 | 078 |
| 079 | Synth Lead 5 | 34:Synth Lead | 88 | 64 | 079 |
| 080 | Synth Lead 6 | 34:Synth Lead | 88 | 64 | 080 |
| 081 | Synth Bass 7 | 21:Synth Bass | 88 | 64 | 081 |
| 082 | Synth Seq/Pop 1 | 40:Synth Seq/Pop | 88 | 64 | 082 |
| 083 | Pulsating 2 | 42:Pulsating | 88 | 64 | 083 |
| 084 | Synth FX 1 | 39:Synth FX | 88 | 64 | 084 |
| 085 | Synth FX 2 | 39:Synth FX | 88 | 64 | 085 |
| 086 | Chordy Pants | 42:Pulsating | 88 | 64 | 086 |
| 087 | Tube FX | 39:Synth FX | 88 | 64 | 087 |
| 088 | Quad Saw | 38:Synth PolyKey | 88 | 64 | 088 |
| 089 | Synth Lead 7 | 34:Synth Lead | 88 | 64 | 089 |
| 090 | Synth Bass 8 | 21:Synth Bass | 88 | 64 | 090 |
| 091 | Synth PolyKey 4 | 38:Synth PolyKey | 88 | 64 | 091 |
| 092 | Heavy J Pluck | 40:Synth Seq/Pop | 88 | 64 | 092 |
| 093 | LongStory2B Hold | 21:Synth Bass | 88 | 64 | 093 |
| 094 | Jovian Strings | 36:Synth Pad/Str | 88 | 64 | 094 |
| 095 | Additive 4 Bass | 21:Synth Bass | 88 | 64 | 095 |
| 096 | Yuya Bass R4 | 21:Synth Bass | 88 | 64 | 096 |
| 097 | Phoenix Pf | 14:Bell | 88 | 64 | 097 |
| 098 | Asimov Bots | 34:Synth Lead | 88 | 64 | 098 |
| 099 | 14 Saw OctUnison | 34:Synth Lead | 88 | 64 | 099 |
| 100 | NeoWorldSymphony | 36:Synth Pacs | 88 | 64 | 100 |
| 101 | Tweak Box | 21:Synth Bass | 88 | 64 | 101 |
| 102 | Modul Arpg | 39:Synth FX | 88 | 64 | 102 |
| 103 | Bubble Boy | 34:Synth Lead | 88 | 64 | 103 |

| No. | Name | Category | MSB | LSB | PC |
|------------|-------------------------|-----------------------------------|----------|----------|-----|
| 104 | 2 Many Cables | 39:Synth FX | 88 | 64 | 104 |
| 105 | Melancholy | 34:Synth Lead | 88 | 64 | 105 |
| 106 | Smooth Fat | 21:Synth Bass | 88 | 64 | 106 |
| 107 | Liquid Stab | 36:Synth Pad/Str | 88 | 64 | 107 |
| 108 | Simple Pluck | 34:Synth Lead | 88 | 64 | 108 |
| 109 | Cacophony Stack | 36:Synth Pad/Str | 88 | 64 | 109 |
| 110 | Dirty SSaws | 34:Synth Lead | 88 | 64 | 110 |
| 111 | Sidechain SSaws | 42:Pulsating | 88 | 64 | 111 |
| 112 | Super Square! | 34:Synth Lead | 88 | 64 | 112 |
| 113 | Super Pluck | 40:Synth Seq/Pop | 88 | 64 | 113 |
| 114 | Saw Delay | 38:Synth PolyKey | 88 | 64 | 114 |
| 115 | Standard Lead | 34:Synth Lead | 88 | 64 | 115 |
| 116 | HPF Lead | 40:Synth Seq/Pop | 88 | 64 | 116 |
| 117 | HPF Sweep Pad | 36:Synth Pad/Str | 88 | 64 | 117 |
| 118 | Ya-l | 42:Pulsating | 88 | 64 | 118 |
| 119 | Saw Oct Stack Bs | 21:Synth Bass | 88 | 64 | 119 |
| 120 | 7th Stack Lead | 34:Synth Lead | 88 | 64 | 120 |
| 121 | Phaser Pad | 36:Synth Pad/Str | 88 | 64 | 121 |
| 122 | Flanger Pad | 36:Synth Pad/Str | 88 | 64 | 122 |
| 123 | S-Saw Stack Key | 38:Synth PolyKey | 88 | 64 | 123 |
| 124 | Solid Lead | 34:Synth Lead | 88 | 64 | 124 |
| 125 | Buzz Lead | 34:Synth Lead | 88 | 64 | 125 |
| 126 | Saw Stack Stab | 36:Synth Pad/Str | 88 | 64 | 126 |
| 127 | Silent Lead | 34:Synth Lead | 88 | 64 | 127 |
| 128 | Bit Force | 40:Synth Seq/Pop | 88 | 64 | 128 |
| 129 | Rumors Bass | 21:Synth Bass | 88 | 65 | 001 |
| 130 | Analog Magic | 34:Synth Lead | 88 | 65 | 002 |
| 131 | Kick LFO Bass 1 | 21:Synth Bass | 88 | 65 | 003 |
| 132 | Bit Bass | 21:Synth Bass | 88 | 65 | 004 |
| 133 | Bit Bass SQ | 21:Synth Bass | 88 | 65 | 005 |
| 134 | B Pluck | 40:Synth Seq/Pop | 88 | 65 | 006 |
| 135 | BP Wide | 38:Synth PolyKey | 88 | 65 | 007 |
| 136 | 7 Lead P | 34:Synth Debylor | 88 | 65 | 008 |
| 137 | PWM SQ Tri Kick Bass | 38:Synth PolyKey 21:Synth Bass | 88 88 | 65 65 | 010 |
| 138 139 | Analog Stab | 44:Hit | 88 | 65 | 010 |
| 140 | Happy Lead | 34:Synth Lead | 88 | 65 | 011 |
| 141 | SuperSaw Pad | 36:Synth Pad/Str | 88 | 65 | 012 |
| 142 | LoFi Ravy | 38:Synth PolyKey | 88 | 65 | 013 |
| 143 | US House Bass | 21:Synth Bass | 88 | 65 | 015 |
| 144 | JUNO Reso Pad | 36:Synth Pad/Str | 88 | 65 | 016 |
| 145 | SSaw&Sine Pad | 34:Synth Lead | 88 | 65 | 017 |
| 146 | Quad Color | 36:Synth Pad/Str | 88 | 65 | 018 |
| 147 | Sunset Pad | 36:Synth Pad/Str | 88 | 65 | 019 |
| 148 | Fall Down FX | 39:Synth FX | 88 | 65 | 020 |
| 149 | 4D Stab | 44:Hit | 88 | 65 | 021 |
| 150 | Fly High Pad | 36:Synth Pad/Str | 88 | 65 | 022 |
| 151 | PsyTrance Bass 1 | 21:Synth Bass | 88 | 65 | 023 |
| 152 | Pop Pop Sqr | 40:Synth Seq/Pop | 88 | 65 | 024 |
| 153 | Noise Impact | 39:Synth FX | 88 | 65 | 025 |
| 154 | 808 Bass | 21:Synth Bass | 88 | 65 | 026 |
| 155 | Trance Chord | 36:Synth Pad/Str | 88 | 65 | 027 |
| 156 | Saw&Noise Pluck | 34:Synth Lead | 88 | 65 | 028 |
| 157 | Epic Pluck | 34:Synth Lead | 88 | 65 | 029 |
| 158 | Wow!! | 39:Synth FX | 88 | 65 | 030 |
| 159 | Sine Lead | 34:Synth Lead | 88 | 65 | 031 |
| 160 | Soft Syn Brass | 35:Synth Brass | 88 | 65 | 032 |
| 161 | Siren | 39:Synth FX | 88 | 65 | 033 |
| 162 | Rituals | 36:Synth Pad/Str | 88 | 65 | 034 |
| 163 | Wind Wave 1 | 39:Synth FX | 88 | 65 | 035 |
| 164 | Whistle | 34:Synth Lead | 88 | 65 | 036 |
| 165 | Wah Keys | 38:Synth PolyKey | 88 | 65 | 037 |

| No. | Name | Category | MSB | LSB | PC |
|------------|----------------------------------|------------------|--------|----------|-----|
| 166 | Round Bass | 21:Synth Bass | 88 | 65 | 038 |
| 167 | Bass Saw | 21:Synth Bass | 88 | 65 | 039 |
| 168 | Synth Pad/Str 16 | 36:Synth Pad/Str | 88 | 65 | 040 |
| 169 | Synth Pad/Str 17 | 36:Synth Pad/Str | 88 | 65 | 041 |
| 170 | Synth Pad/Str 18 | 36:Synth Pad/Str | 88 | 65 | 042 |
| 171 | Synth Pad/Str 19 | 36:Synth Pad/Str | 88 | 65 | 043 |
| 172 | Synth Pad/Str 20 | 36:Synth Pad/Str | 88 | 65 | 044 |
| 173 | Synth Pad/Str 21 | 36:Synth Pad/Str | 88 | 65 | 045 |
| 174 | Synth Pad/Str 22 | 36:Synth Pad/Str | 88 | 65 | 046 |
| 175 | Synth Pad/Str 23 | 36:Synth Pad/Str | 88 | 65 | 047 |
| 176 | Synth Pad/Str 24 | 36:Synth Pad/Str | 88 | 65 | 048 |
| 177 | Synth Pad/Str 25 | 36:Synth Pad/Str | 88 | 65 | 049 |
| 178 | Synth Pad/Str 26 | 36:Synth Pad/Str | 88 | 65 | 050 |
| 179 | Synth Pad/Str 27 | 36:Synth Pad/Str | 88 | 65 | 051 |
| 180 | Synth Pad/Str 28 | 36:Synth Pad/Str | 88 | 65 | 052 |
| 181 | Synth Pad/Str 29 | 36:Synth Pad/Str | 88 | 65 | 053 |
| 182 | Synth Pad/Str 30 | 36:Synth Pad/Str | 88 | 65 | 054 |
| 183 | Synth Pad/Str 31 | 36:Synth Pad/Str | 88 | 65 | 055 |
| 184 | Synth Pad/Str 32 | 36:Synth Pad/Str | 88 | 65 | 056 |
| 185 | Synth PolyKey 5 | 38:Synth PolyKey | 88 | 65 | 057 |
| 186 | Synth PolyKey 6 | 38:Synth PolyKey | 88 | 65 | 058 |
| 187 | Synth PolyKey 7 | 38:Synth PolyKey | 88 | 65 | 059 |
| 188 | Synth PolyKey 8 | 38:Synth PolyKey | 88 | 65 | 060 |
| 189 | Pulsating 3 | 42:Pulsating | 88 | 65 | 061 |
| 190 | Pulsating 4 | 42:Pulsating | 88 | 65 | 062 |
| 191 | Pulsating 5 | 42:Pulsating | 88 | 65 | 063 |
| 192 | Synth Brass 2 | 35:Synth Brass | 88 | 65 | 064 |
| 193 | Synth Brass 3 | 35:Synth Brass | 88 | 65 | 065 |
| 194 | Synth Lead 8 | 34:Synth Lead | 88 | 65 | 066 |
| 195 | Synth Lead 9 | 34:Synth Lead | 88 | 65 | 067 |
| 196 | Synth Lead 10 | 34:Synth Lead | 88 | 65 | 068 |
| 197 | Synth Lead 11 | 34:Synth Lead | 88 | 65 | 069 |
| | Synth Lead 12 | 34:Synth Lead | 88 | 65 | 070 |
| 198 199 | Synth Bass 9 | 21:Synth Bass | 88 | 65 | 070 |
| 200 | Synth Lead 13 | 34:Synth Lead | 88 | 65 | 071 |
| 201 | Synth Bass 10 | 21:Synth Bass | 88 | 65 | 072 |
| 202 | Synth Bass 11 | 21:Synth Bass | 88 | 65 | 073 |
| 203 | Synth Bass 12 | 21:Synth Bass | 88 | 65 | 075 |
| 204 | Synth Bass 13 | 21:Synth Bass | 88 | 65 | 075 |
| 205 | Synth Bass 14 | 21:Synth Bass | 88 | 65 | 077 |
| 206 | Synth Bass 15 | 21:Synth Bass | 88 | 65 | 078 |
| 207 | Synth Bass 16 | 21:Synth Bass | 88 | 65 | 079 |
| 208 | Synth Bass 17 | 21:Synth Bass | 88 | 65 | 080 |
| 209 | Synth Bass 18 | 21:Synth Bass | 88 | 65 | 080 |
| 210 | Synth Bass 19 | 21:Synth Bass | 88 | 65 | 081 |
| 211 | Synth Bass 20 | 21:Synth Bass | 88 | 65 | 082 |
| 212 | Synth Seq/Pop 2 | 40:Synth Seg/Pop | 88 | 65 | 084 |
| 213 | Synth Seq/Pop 3 | 40:Synth Seq/Pop | 88 | 65 | 085 |
| 214 | Synth Seq/Pop 4 | 40:Synth Seq/Pop | 88 | 65 | 086 |
| 215 | Synth FX 3 | 39:Synth FX | 88 | 65 | 087 |
| 216 | Synth Brass 4 | 35:Synth Brass | 88 | 65 | 087 |
| 217 | Synth Pad/Str 33 | 36:Synth Pad/Str | 88 | 65 | 089 |
| 218 | Synth Pad/Str 34 | 36:Synth Pad/Str | 88 | 65 | 089 |
| 219 | Synth PolyKey 9 | 38:Synth PolyKey | 88 | 65 | 090 |
| _ | Synth Polykey 9 Synth PolyKey 10 | , , , | 88 | 65 | 091 |
| 220 | | 38:Synth PolyKey | | | |
| 221 | Synth PolyKey 11 | 38:Synth PolyKey | 88 | 65 65 | 093 |
| 222 | Synth PolyKey 12 | 38:Synth PolyKey | 88 | | 094 |
| 223 | Synth PolyKey 13 | 38:Synth PolyKey | 88 | 65 | 095 |
| 224 | Synth PolyKey 14 | 38:Synth PolyKey | 88 | 65 | 096 |
| 225 | Synth Brass 5 | 35:Synth Brass | 88 | 65 | 097 |
| 226 | Synth Pad/Str 35 | 36:Synth PalyKov | 88 | 65 | 098 |
| 227 | Synth PolyKey 15 | 38:Synth PolyKey | 88 | 65 | 099 |

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 228 | Synth PolyKey 16 | 38:Synth PolyKey | 88 | 65 | 100 |
| 229 | Synth Bass 21 | 21:Synth Bass | 88 | 65 | 101 |
| 230 | Synth Lead 14 | 34:Synth Lead | 88 | 65 | 102 |
| 231 | Synth Lead 15 | 34:Synth Lead | 88 | 65 | 103 |
| 232 | Synth PolyKey 17 | 38:Synth PolyKey | 88 | 65 | 104 |
| 233 | Synth Bass 22 | 21:Synth Bass | 88 | 65 | 105 |
| 234 | Synth PolyKey 18 | 38:Synth PolyKey | 88 | 65 | 106 |
| 235 | Synth Pad/Str 36 | 36:Synth Pad/Str | 88 | 65 | 107 |
| 236 | Synth FX 4 | 39:Synth FX | 88 | 65 | 108 |
| 237 | Synth FX 5 | 39:Synth FX | 88 | 65 | 109 |
| 238 | Synth FX 6 | 39:Synth FX | 88 | 65 | 110 |
| 239 | Synth Pad/Str 37 | 36:Synth Pad/Str | 88 | 65 | 111 |
| 240 | Synth Pad/Str 38 | 36:Synth Pad/Str | 88 | 65 | 112 |
| 241 | Synth PolyKey 19 | 38:Synth PolyKey | 88 | 65 | 113 |
| 242 | Synth PolyKey 20 | 38:Synth PolyKey | 88 | 65 | 114 |
| 243 | Synth PolyKey 21 | 38:Synth PolyKey | 88 | 65 | 115 |
| 244 | Synth PolyKey 22 | 38:Synth PolyKey | 88 | 65 | 116 |
| 245 | Synth PolyKey 23 | 38:Synth PolyKey | 88 | 65 | 117 |
| 246 | Synth Pad/Str 39 | 36:Synth Pad/Str | 88 | 65 | 118 |
| 247 | Synth Pad/Str 40 | 36:Synth Pad/Str | 88 | 65 | 119 |
| 248 | Synth Pad/Str 41 | 36:Synth Pad/Str | 88 | 65 | 120 |
| 249 | Pulsating 6 | 42:Pulsating | 88 | 65 | 121 |
| 250 | Pulsating 7 | 42:Pulsating | 88 | 65 | 122 |
| 251 | Pulsating 8 | 42:Pulsating | 88 | 65 | 123 |
| 252 | Synth Bass 23 | 21:Synth Bass | 88 | 65 | 124 |
| 253 | Synth Brass 6 | 35:Synth Brass | 88 | 65 | 125 |
| 254 | Synth Brass 7 | 35:Synth Brass | 88 | 65 | 126 |
| 255 | Synth Pad/Str 42 | 36:Synth Pad/Str | 88 | 65 | 127 |
| 256 | Synth PolyKey 24 | 38:Synth PolyKey | 88 | 65 | 128 |
| 257 | Synth Pad/Str 43 | 36:Synth Pad/Str | 88 | 66 | 001 |
| 258 | Synth Pad/Str 44 | 36:Synth Pad/Str | 88 | 66 | 002 |
| 259 | Synth Pad/Str 45 | 36:Synth Pad/Str | 88 | 66 | 003 |
| 260 | Synth PolyKey 25 | 38:Synth PolyKey | 88 | 66 | 004 |
| 261 | Synth Pad/Str 46 | 36:Synth Pad/Str | 88 | 66 | 005 |
| 262 | Synth PolyKey 26 | 38:Synth PolyKey | 88 | 66 | 006 |
| 263 | Synth Pad/Str 47 | 36:Synth Pad/Str | 88 | 66 | 007 |
| 264 | Synth Pad/Str 48 | 36:Synth Pad/Str | 88 | 66 | 800 |
| 265 | Synth Pad/Str 49 | 36:Synth Pad/Str | 88 | 66 | 009 |
| 266 | Synth Pad/Str 50 | 36:Synth Pad/Str | 88 | 66 | 010 |
| 267 | Synth Pad/Str 51 | 36:Synth Pad/Str | 88 | 66 | 011 |
| 268 | Synth Pad/Str 52 | 36:Synth Pad/Str | 88 | 66 | 012 |
| 269 | Synth Pad/Str 53 | 36:Synth Pad/Str | 88 | 66 | 013 |
| 270 | Bell 3 | 14:Bell | 88 | 66 | 014 |
| 271 | Synth PolyKey 27 | 38:Synth PolyKey | 88 | 66 | 015 |
| 272 | Synth Lead 16 | 34:Synth Lead | 88 | 66 | 016 |
| 273 | Pulsating 9 | 42:Pulsating | 88 | 66 | 017 |
| 274 | Synth Brass 8 | 35:Synth Brass | 88 | 66 | 018 |
| 275 | Synth Brass 9 | 35:Synth Brass | 88 | 66 | 019 |
| 276 | Synth Brass 10 | 35:Synth Brass | 88 | 66 | 020 |
| 277 | Synth Brass 11 | 35:Synth Brass | 88 | 66 | 021 |
| 278 | Synth Brass 12 | 35:Synth Brass | 88 | 66 | 022 |
| 279 | Synth Brass 13 | 35:Synth Brass | 88 | 66 | 023 |
| 280 | Synth Brass 14 | 35:Synth Brass | 88 | 66 | 024 |
| 281 | Synth Lead 17 | 34:Synth Lead | 88 | 66 | 025 |
| 282 | Synth Lead 18 | 34:Synth Lead | 88 | 66 | 026 |
| 283 | Synth Lead 19 | 34:Synth Lead | 88 | 66 | 027 |
| 284 | Synth Lead 20 | 34:Synth Lead | 88 | 66 | 028 |
| 285 | Synth Lead 21 | 34:Synth Lead | 88 | 66 | 029 |
| 286 | Synth Bass 24 | 21:Synth Bass | 88 | 66 | 030 |
| 287 | Synth Bass 25 | 21:Synth Bass | 88 | 66 | 031 |
| 288 | Synth Bass 26 | 21:Synth Bass | 88 | 66 | 032 |
| 289 | Synth Seq/Pop 5 | 40:Synth Seq/Pop | 88 | 66 | 033 |

| No. | Name | Category | MSB | LSB | PC |
|------------|-----------------------------------|--------------------------------------|----------|----------|------------|
| 290 | Synth Seq/Pop 6 | 40:Synth Seq/Pop | 88 | 66 | 034 |
| 291 | Synth Seq/Pop 7 | 40:Synth Seg/Pop | 88 | 66 | 035 |
| 292 | Synth Seq/Pop 8 | 40:Synth Seq/Pop | 88 | 66 | 036 |
| 293 | Synth Seq/Pop 9 | 40:Synth Seq/Pop | 88 | 66 | 037 |
| 294 | Synth Bass 27 | 21:Synth Bass | 88 | 66 | 038 |
| 295 | Synth FX 7 | 39:Synth FX | 88 | 66 | 039 |
| 296 | Synth FX 8 | 39:Synth FX | 88 | 66 | 040 |
| 297 | Synth PolyKey 28 | 38:Synth PolyKey | 88 | 66 | 041 |
| 298 | Synth PolyKey 29 | 38:Synth PolyKey | 88 | 66 | 042 |
| 299 | Synth PolyKey 30 | 38:Synth PolyKey | 88 | 66 | 043 |
| 300 | Synth Pad/Str 54 | 36:Synth Pad/Str | 88 | 66 | 044 |
| 301 | Synth Pad/Str 55 | 36:Synth Pad/Str | 88 | 66 | 045 |
| 302 | Synth PolyKey 31 | 38:Synth PolyKey | 88 | 66 | 046 |
| 303 | Synth PolyKey 32 | 38:Synth PolyKey | 88 | 66 | 047 |
| 304 | Synth Bass 28 | 21:Synth Bass | 88 | 66 | 048 |
| 305 | Synth Pad/Str 56 | 36:Synth Pad/Str | 88 | 66 | 049 |
| 306 | Synth Pad/Str 57 | 36:Synth Pad/Str | 88 | 66 | 050 |
| 307 | Synth FX 9 | 39:Synth FX | 88 | 66 | 051 |
| 308 | Synth PolyKey 33 | 38:Synth PolyKey | 88 | 66 | 052 |
| 309 | Synth Lead 22 | 34:Synth Lead | 88 | 66 | 053 |
| 310 | Synth Brass 15 | 35:Synth Brass | 88 | 66 | 054 |
| 311 | Synth Brass 16 | 35:Synth Brass | 88 | 66 | 055 |
| 312 | Synth Brass 17 | 35:Synth Brass | 88 | 66 | 056 |
| 313 | Synth PolyKey 34 | 38:Synth PolyKey | 88 | 66 | 057 |
| 314 | Synth PolyKey 35 | 38:Synth PolyKey | 88 | 66 | 058 |
| 315 | Synth Brass 18 | 35:Synth Brass | 88 | 66 | 059 |
| 316 | Synth Pad/Str 58 | 36:Synth Pad/Str | 88 | 66 | 060 |
| 317 | Synth Pad/Str 59 | 36:Synth Pad/Str | 88 | 66 | 061 |
| 318 | Synth Pad/Str 60 | 36:Synth Pad/Str | 88 | 66 | 062 |
| 319 | Synth Pad/Str 61 | 36:Synth Pad/Str | 88 | 66 | 063 |
| 320 | Synth Seq/Pop 10 | 40:Synth Seq/Pop | 88 | 66 | 064 |
| 321 | Synth PolyKey 36 | 38:Synth PolyKey | 88 | 66 | 065 |
| 322 | Bell 4 | 14:Bell | 88 | 66 | 066 |
| 323 | Bell 5 | 14:Bell | 88 | 66 | 067 |
| 324 | Synth Bass 29 | 21:Synth Bass | 88 | 66 | 068 |
| 325 | Synth FX 10 | 39:Synth FX | 88 88 | 66 | 069 |
| 326 | Synth Pad/Str 62 | 36:Synth Pad/Str | | 66 | 070 |
| 327 | Synth Pad/Str 63 | 36:Synth Pad/Str 36:Synth Pad/Str | 88 88 | 66 66 | 071 072 |
| 328 329 | Synth Pad/Str 64 Synth Pad/Str 65 | 36:Synth Pad/Str | 88 | 66 | 072 |
| 330 | Synth Pad/Str 66 | 36:Synth Pad/Str | 88 | 66 | 073 |
| 331 | Synth Pad/Str 67 | 36:Synth Pad/Str | 88 | 66 | 074 |
| 332 | Synth Pad/Str 68 | 36:Synth Pad/Str | 88 | 66 | 076 |
| 333 | Synth PolyKey 37 | 38:Synth PolyKey | 88 | 66 | 077 |
| 334 | Synth Lead 23 | 34:Synth Lead | 88 | 66 | 078 |
| 335 | Synth Seq/Pop 11 | 40:Synth Seq/Pop | 88 | 66 | 079 |
| 336 | Synth Lead 24 | 34:Synth Lead | 88 | 66 | 080 |
| 337 | Synth Lead 25 | 34:Synth Lead | 88 | 66 | 081 |
| 338 | Synth Lead 26 | 34:Synth Lead | 88 | 66 | 082 |
| 339 | Synth Lead 27 | 34:Synth Lead | 88 | 66 | 083 |
| 340 | Synth Lead 28 | 34:Synth Lead | 88 | 66 | 084 |
| 341 | Synth Bass 30 | 21:Synth Bass | 88 | 66 | 085 |
| 342 | Synth Lead 29 | 34:Synth Lead | 88 | 66 | 086 |
| 343 | Synth Lead 30 | 34:Synth Lead | 88 | 66 | 087 |
| 344 | Synth Lead 31 | 34:Synth Lead | 88 | 66 | 088 |
| 345 | Synth Lead 32 | 34:Synth Lead | 88 | 66 | 089 |
| 346 | Synth Lead 33 | 34:Synth Lead | 88 | 66 | 090 |
| 347 | Synth Lead 34 | 34:Synth Lead | 88 | 66 | 091 |
| 348 | Synth Lead 35 | 34:Synth Lead | 88 | 66 | 092 |
| 349 | Synth Lead 36 | 34:Synth Lead | 88 | 66 | 093 |
| 350 | Synth Lead 37 | 34:Synth Lead | 88 | 66 | 094 |
| 351 | Synth Lead 38 | 34:Synth Lead | 88 | 66 | 095 |
| | | · | | | |

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 352 | Synth Lead 39 | 34:Synth Lead | 88 | 66 | 096 |
| 353 | Synth Lead 40 | 34:Synth Lead | 88 | 66 | 097 |
| 354 | Synth Bass 31 | 21:Synth Bass | 88 | 66 | 098 |
| 355 | Synth Bass 32 | 21:Synth Bass | 88 | 66 | 099 |
| 356 | Synth Bass 33 | 21:Synth Bass | 88 | 66 | 100 |
| 357 | Synth Bass 34 | 21:Synth Bass | 88 | 66 | 101 |
| 358 | Synth Bass 35 | 21:Synth Bass | 88 | 66 | 102 |
| 359 | Synth Bass 36 | 21:Synth Bass | 88 | 66 | 103 |
| 360 | Synth Bass 37 | 21:Synth Bass | 88 | 66 | 104 |
| 361 | Synth Bass 38 | 21:Synth Bass | 88 | 66 | 105 |
| 362 | Synth Bass 39 | 21:Synth Bass | 88 | 66 | 106 |
| 363 | Synth Bass 40 | 21:Synth Bass | 88 | 66 | 107 |
| 364 | Synth Bass 41 | 21:Synth Bass | 88 | 66 | 108 |
| 365 | Synth Bass 42 | 21:Synth Bass | 88 | 66 | 109 |
| 366 | Synth Bass 43 | 21:Synth Bass | 88 | 66 | 110 |
| 367 | Synth Bass 44 | 21:Synth Bass | 88 | 66 | 111 |
| 368 | Synth Bass 45 | 21:Synth Bass | 88 | 66 | 112 |
| 369 | Synth Bass 46 | 21:Synth Bass | 88 | 66 | 113 |
| 370 | Synth Bass 47 | 21:Synth Bass | 88 | 66 | 114 |
| 371 | Synth Bass 48 | 21:Synth Bass | 88 | 66 | 115 |
| 372 | Synth Bass 49 | 21:Synth Bass | 88 | 66 | 116 |
| 373 | Synth Bass 50 | 21:Synth Bass | 88 | 66 | 117 |
| 374 | Synth Bass 51 | 21:Synth Bass | 88 | 66 | 118 |
| 375 | Synth Bass 52 | 21:Synth Bass | 88 | 66 | 119 |
| 376 | Synth Bass 53 | 21:Synth Bass | 88 | 66 | 120 |
| 377 | Synth Seq/Pop 12 | 40:Synth Seq/Pop | 88 | 66 | 121 |
| 378 | Synth Seq/Pop 13 | 40:Synth Seq/Pop | 88 | 66 | 122 |
| 379 | Synth Seq/Pop 14 | 40:Synth Seq/Pop | 88 | 66 | 123 |
| 380 | Synth Seq/Pop 15 | 40:Synth Seq/Pop | 88 | 66 | 124 |
| 381 | Synth Seq/Pop 16 | 40:Synth Seq/Pop | 88 | 66 | 125 |
| 382 | Synth Seq/Pop 17 | 40:Synth Seq/Pop | 88 | 66 | 126 |
| 383 | Bell 6 | 14:Bell | 88 | 66 | 127 |
| 384 | Synth Pad/Str 69 | 36:Synth Pad/Str | 88 | 66 | 128 |
| 385 | Synth Lead 41 | 34:Synth Lead | 88 | 67 | 001 |
| 386 | Synth PolyKey 38 | 38:Synth PolyKey | 88 | 67 | 002 |
| 387 | Synth PolyKey 39 | 38:Synth PolyKey | 88 | 67 | 003 |
| 388 | Pulsating 10 | 42:Pulsating | 88 | 67 | 004 |
| 389 | Pulsating 11 | 42:Pulsating | 88 | 67 | 005 |
| 390 | Pulsating 12 | 42:Pulsating | 88 | 67 | 006 |
| 391 | Synth Seq/Pop 18 | 40:Synth Seq/Pop | 88 | 67 | 007 |
| 392 | Synth PolyKey 40 | 38:Synth PolyKey | 88 | 67 | 800 |
| 393 | Synth FX 11 | 39:Synth FX | 88 | 67 | 009 |
| 394 | Synth FX 12 | 39:Synth FX | 88 | 67 | 010 |
| 395 | Synth Lead 42 | 34:Synth Lead | 88 | 67 | 011 |
| 396 | Synth Lead 43 | 34:Synth Lead | 88 | 67 | 012 |
| 397 | Synth Lead 44 | 34:Synth Lead | 88 | 67 | 013 |
| 398 | Synth Pad/Str 70 | 36:Synth Pad/Str | 88 | 67 | 014 |
| 399 | Synth PolyKey 41 | 38:Synth PolyKey | 88 | 67 | 015 |
| 400 | Bass Fifth | 21:Synth Bass | 88 | 67 | 016 |
| 401 | Phaso Pulse | 42:Pulsating | 88 | 67 | 017 |

SH-3d OSC model

| No. | Name | Category | MSB | LSB | PC |
|-----|-----------------|------------------|-----|-----|-----|
| 001 | Synth Bass 54 | 21:Synth Bass | 88 | 68 | 001 |
| 002 | Synth Bass 55 | 21:Synth Bass | 88 | 68 | 002 |
| 003 | Froggy Triplet | 42:Pulsating | 88 | 68 | 003 |
| 004 | SH Professional | 34:Synth Lead | 88 | 68 | 004 |
| 005 | Distant Past | 36:Synth Pad/Str | 88 | 68 | 005 |
| 006 | Chemical Drop | 21:Synth Bass | 88 | 68 | 006 |
| 007 | PWM Go | 38:Synth PolyKey | 88 | 68 | 007 |

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 008 | Behooves You | 38:Synth PolyKey | 88 | 68 | 008 |
| 009 | Morning Dew | 40:Synth Seq/Pop | 88 | 68 | 009 |
| 010 | SciFi Lead | 34:Synth Lead | 88 | 68 | 010 |
| 011 | 3OSC Acid Arpg | 21:Synth Bass | 88 | 68 | 011 |
| 012 | 5th Ambi Pluck | 40:Synth Seq/Pop | 88 | 68 | 012 |
| 013 | Tri Stack Lead | 34:Synth Lead | 88 | 68 | 013 |
| 014 | Random 7 | 42:Pulsating | 88 | 68 | 014 |
| 015 | Reese Lead | 34:Synth Lead | 88 | 68 | 015 |
| 016 | EmotionalAmbient | 36:Synth Pad/Str | 88 | 68 | 016 |
| 017 | Crazy Pad 3D | 36:Synth Pad/Str | 88 | 68 | 017 |
| 018 | Synwave Bass | 21:Synth Bass | 88 | 68 | 018 |
| 019 | LoFi Piano Stab | 44:Hit | 88 | 68 | 019 |
| 020 | Resonance Pad | 36:Synth Pad/Str | 88 | 68 | 020 |
| 021 | Mother Ship | 36:Synth Pad/Str | 88 | 68 | 021 |
| 022 | In the Cloud | 36:Synth Pad/Str | 88 | 68 | 022 |
| 023 | Synth Lead 45 | 34:Synth Lead | 88 | 68 | 023 |
| 024 | Synth Bass 56 | 21:Synth Bass | 88 | 68 | 024 |
| 025 | Synth Brass 19 | 35:Synth Brass | 88 | 68 | 025 |
| 026 | Synth Lead 46 | 34:Synth Lead | 88 | 68 | 026 |
| 027 | Synth Lead 47 | 34:Synth Lead | 88 | 68 | 027 |
| 028 | Synth Lead 48 | 34:Synth Lead | 88 | 68 | 028 |
| 029 | Synth Lead 49 | 34:Synth Lead | 88 | 68 | 029 |
| 030 | Synth Brass 20 | 35:Synth Brass | 88 | 68 | 030 |
| 031 | Synth Lead 50 | 34:Synth Lead | 88 | 68 | 031 |
| 032 | Synth Lead 51 | 34:Synth Lead | 88 | 68 | 032 |
| 033 | Synth Bass 57 | 21:Synth Bass | 88 | 68 | 033 |
| 034 | Synth Lead 52 | 34:Synth Lead | 88 | 68 | 034 |
| 035 | Synth Lead 53 | 34:Synth Lead | 88 | 68 | 035 |
| 036 | Synth Lead 54 | 34:Synth Lead | 88 | 68 | 036 |
| 037 | Synth Bass 58 | 21:Synth Bass | 88 | 68 | 037 |
| 038 | Synth Bass 59 | 21:Synth Bass | 88 | 68 | 038 |
| 039 | Synth Lead 55 | 34:Synth Lead | 88 | 68 | 039 |
| 040 | Bell 7 | 14:Bell | 88 | 68 | 040 |
| 041 | Synth PolyKey 42 | 38:Synth PolyKey | 88 | 68 | 041 |
| 042 | Synth FX 13 | 39:Synth FX | 88 | 68 | 042 |
| 043 | Synth Seq/Pop 19 | 40:Synth Seq/Pop | 88 | 68 | 043 |
| 044 | Synth Lead 56 | 34:Synth Lead | 88 | 68 | 044 |
| 045 | ThereGoes Fluffy | 42:Pulsating | 88 | 68 | 045 |
| 046 | NeucleoGenesis 3 | 42:Pulsating | 88 | 68 | 046 |
| 047 | MartiansComeHome | 34:Synth Lead | 88 | 68 | 047 |
| 048 | BehindThePolyMo | 38:Synth PolyKey | 88 | 68 | 048 |
| 049 | Daughter of '72 | 34:Synth Lead | 88 | 68 | 049 |
| 050 | Son of '69 | 34:Synth Lead | 88 | 68 | 050 |
| 051 | Soul Flight '69 | 34:Synth Lead | 88 | 68 | 051 |
| 052 | Half Deity | 39:Synth FX | 88 | 68 | 052 |
| 053 | Storm Singer | 34:Synth Lead | 88 | 68 | 053 |
| 054 | Flutter Pad | 36:Synth Pad/Str | 88 | 68 | 054 |
| 055 | Sweet Keys | 38:Synth PolyKey | 88 | 68 | 055 |
| 056 | Noi Sine | 42:Pulsating | 88 | 68 | 056 |
| 057 | TB-3d Saw Dry | 21:Synth Bass | 88 | 68 | 057 |
| 058 | TB-3d Sqr Dist | 21:Synth Bass | 88 | 68 | 058 |
| 059 | TB-3d Modded | 21:Synth Bass | 88 | 68 | 059 |
| 060 | Wheel Riser | 39:Synth FX | 88 | 68 | 060 |
| 061 | Liquid Radio | 39:Synth FX | 88 | 68 | 061 |
| 062 | Wind Control | 39:Synth FX | 88 | 68 | 062 |
| 063 | Psy Lead | 34:Synth Lead | 88 | 68 | 063 |
| 064 | Oct Glider | 36:Synth Pad/Str | 88 | 68 | 064 |
| 065 | SH RNDM Pluck | 40:Synth Seq/Pop | 88 | 68 | 065 |
| 066 | Gravity Bounce | 42:Pulsating | 88 | 68 | 066 |
| 067 | I've seen things | 36:Synth Pad/Str | 88 | 68 | 067 |
| 068 | Rndm Mod Lead | 34:Synth Lead | 88 | 68 | 068 |
| 069 | Slow Organ | 38:Synth PolyKey | 88 | 68 | 069 |
| | | | | | |

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 070 | Lofi B | 38:Synth PolyKey | 88 | 68 | 070 |
| 071 | Dual Square | 34:Synth Lead | 88 | 68 | 071 |
| 072 | Sqr Cho Pluck | 40:Synth Seq/Pop | 88 | 68 | 072 |
| 073 | FLead 505 | 34:Synth Lead | 88 | 68 | 073 |
| 074 | Synth Poly Key | 38:Synth PolyKey | 88 | 68 | 074 |
| 075 | Dist Lead 1 | 34:Synth Lead | 88 | 68 | 075 |
| 076 | S&H Pad | 42:Pulsating | 88 | 68 | 076 |
| 077 | FX Scan | 39:Synth FX | 88 | 68 | 077 |
| 078 | Lead 7 | 34:Synth Lead | 88 | 68 | 078 |
| 079 | CAOSiN | 34:Synth Lead | 88 | 68 | 079 |
| 080 | CAOSiN P | 42:Pulsating | 88 | 68 | 080 |
| 081 | Attack Bass | 21:Synth Bass | 88 | 68 | 081 |
| 082 | Open Pluck | 40:Synth Seq/Pop | 88 | 68 | 082 |
| 083 | Euro Synth | 34:Synth Lead | 88 | 68 | 083 |
| 084 | Deep Reese Bass | 21:Synth Bass | 88 | 68 | 084 |
| 085 | Future Org Bass | 21:Synth Bass | 88 | 68 | 085 |
| 086 | Disco Lead | 34:Synth Lead | 88 | 68 | 086 |
| 087 | LoFiWarm E.Piano | 38:Synth PolyKey | 88 | 68 | 087 |
| 088 | Sweep Pad | 36:Synth Pad/Str | 88 | 68 | 088 |
| 089 | Seq Pad | 42:Pulsating | 88 | 68 | 089 |
| 090 | Seq Noise Delay | 39:Synth FX | 88 | 68 | 090 |
| 091 | Pop Lead 1 | 34:Synth Lead | 88 | 68 | 091 |
| 092 | Pop Lead 2 | 34:Synth Lead | 88 | 68 | 092 |
| 093 | Alien Dialogue | 39:Synth FX | 88 | 68 | 093 |
| 094 | Wind Wave 2 | 39:Synth FX | 88 | 68 | 094 |
| 095 | Storm Wave | 39:Synth FX | 88 | 68 | 095 |
| 096 | Choppp | 42:Pulsating | 88 | 68 | 096 |

Sync OSC model

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 001 | Synth Lead 57 | 34:Synth Lead | 88 | 69 | 001 |
| 002 | Progression | 42:Pulsating | 88 | 69 | 002 |
| 003 | Sync Shredder | 34:Synth Lead | 88 | 69 | 003 |
| 004 | Sync Riffer | 21:Synth Bass | 88 | 69 | 004 |
| 005 | Sweeper | 36:Synth Pad/Str | 88 | 69 | 005 |
| 006 | Punch | 39:Synth FX | 88 | 69 | 006 |
| 007 | Doggie Lead | 34:Synth Lead | 88 | 69 | 007 |
| 008 | Polymisterio | 42:Pulsating | 88 | 69 | 008 |
| 009 | SyncSweep Lead 1 | 34:Synth Lead | 88 | 69 | 009 |
| 010 | Sync Sweep 1 | 39:Synth FX | 88 | 69 | 010 |
| 011 | Sync Lead 1 | 34:Synth Lead | 88 | 69 | 011 |
| 012 | Bad Sync | 34:Synth Lead | 88 | 69 | 012 |
| 013 | Reverse Pluck | 40:Synth Seq/Pop | 88 | 69 | 013 |
| 014 | Cosmic Sync | 38:Synth PolyKey | 88 | 69 | 014 |
| 015 | PWM Acid | 40:Synth Seq/Pop | 88 | 69 | 015 |
| 016 | Slow Sync Pad | 36:Synth Pad/Str | 88 | 69 | 016 |
| 017 | Synth Bass 60 | 21:Synth Bass | 88 | 69 | 017 |
| 018 | Pulsating 13 | 42:Pulsating | 88 | 69 | 018 |
| 019 | Synth Bass 61 | 21:Synth Bass | 88 | 69 | 019 |
| 020 | Pulsating 14 | 42:Pulsating | 88 | 69 | 020 |
| 021 | Synth Lead 58 | 34:Synth Lead | 88 | 69 | 021 |
| 022 | Synth Lead 59 | 34:Synth Lead | 88 | 69 | 022 |
| 023 | Synth PolyKey 43 | 38:Synth PolyKey | 88 | 69 | 023 |
| 024 | Synth FX 14 | 39:Synth FX | 88 | 69 | 024 |
| 025 | Synth Bass 62 | 21:Synth Bass | 88 | 69 | 025 |
| 026 | Synth Lead 60 | 34:Synth Lead | 88 | 69 | 026 |
| 027 | Nasal Sync Pad | 36:Synth Pad/Str | 88 | 69 | 027 |
| 028 | Sync Different | 42:Pulsating | 88 | 69 | 028 |
| 029 | Harmony X | 40:Synth Seq/Pop | 88 | 69 | 029 |
| 030 | Keyfollow Wobble | 21:Synth Bass | 88 | 69 | 030 |

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 031 | Sync Pulse | 42:Pulsating | 88 | 69 | 031 |
| 032 | Deep Sync\$ | 34:Synth Lead | 88 | 69 | 032 |
| 033 | Space Shift | 39:Synth FX | 88 | 69 | 033 |
| 034 | Sync Pluck | 39:Synth FX | 88 | 69 | 034 |
| 035 | Dist Lead 1 | 34:Synth Lead | 88 | 69 | 035 |
| 036 | Sync Magic | 39:Synth FX | 88 | 69 | 036 |
| 037 | Drum n Lead | 34:Synth Lead | 88 | 69 | 037 |
| 038 | Sync Jet | 38:Synth PolyKey | 88 | 69 | 038 |
| 039 | Sync Lead 2 | 34:Synth Lead | 88 | 69 | 039 |
| 040 | Game Attack | 40:Synth Seq/Pop | 88 | 69 | 040 |
| 041 | Lazer Gun | 39:Synth FX | 88 | 69 | 041 |
| 042 | Sync Sweep 2 | 39:Synth FX | 88 | 69 | 042 |
| 043 | Dream Pad | 36:Synth Pad/Str | 88 | 69 | 043 |
| 044 | SyncSweep Lead 2 | 34:Synth Lead | 88 | 69 | 044 |
| 045 | Sync Saw Acid | 40:Synth Seq/Pop | 88 | 69 | 045 |
| 046 | Sync Zap FX | 39:Synth FX | 88 | 69 | 046 |
| 047 | Rock Solo Lead | 34:Synth Lead | 88 | 69 | 047 |
| 048 | Sync Saw | 34:Synth Lead | 88 | 69 | 048 |
| 049 | Kick The Square | 21:Synth Bass | 88 | 69 | 049 |
| 050 | Space Clav | 38:Synth PolyKey | 88 | 69 | 050 |
| 051 | OD Sync | 34:Synth Lead | 88 | 69 | 051 |

SH-101d OSC model

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 001 | SHlime Bass | 21:Synth Bass | 88 | 70 | 001 |
| 002 | SHoly Pad | 36:Synth Pad/Str | 88 | 70 | 002 |
| 003 | SH Bass Gate | 21:Synth Bass | 88 | 70 | 003 |
| 004 | SH-Dark Bass | 21:Synth Bass | 88 | 70 | 004 |
| 005 | 101 Bass Drone | 21:Synth Bass | 88 | 70 | 005 |
| 006 | Noisy Pad | 36:Synth Pad/Str | 88 | 70 | 006 |
| 007 | Tronic Bass | 21:Synth Bass | 88 | 70 | 007 |
| 008 | Filter Velo Bass | 21:Synth Bass | 88 | 70 | 800 |
| 009 | PW & SQR Bass | 21:Synth Bass | 88 | 70 | 009 |
| 010 | Tight Bass | 21:Synth Bass | 88 | 70 | 010 |
| 011 | Space Colony | 39:Synth FX | 88 | 70 | 011 |
| 012 | Smooth 101 | 34:Synth Lead | 88 | 70 | 012 |
| 013 | Shore | 39:Synth FX | 88 | 70 | 013 |
| 014 | Teen's Regime 17 | 34:Synth Lead | 88 | 70 | 014 |
| 015 | Acid Bugs | 42:Pulsating | 88 | 70 | 015 |
| 016 | Analog Flop | 40:Synth Seq/Pop | 88 | 70 | 016 |
| 017 | Simple Sub | 21:Synth Bass | 88 | 70 | 017 |
| 018 | Steady SH | 21:Synth Bass | 88 | 70 | 018 |
| 019 | SH Res Pad | 36:Synth Pad/Str | 88 | 70 | 019 |
| 020 | NoisePulse Track | 34:Synth Lead | 88 | 70 | 020 |
| 021 | Tricky Bass | 21:Synth Bass | 88 | 70 | 021 |
| 022 | PWM Drone Bass | 21:Synth Bass | 88 | 70 | 022 |
| 023 | Rubber Bass | 21:Synth Bass | 88 | 70 | 023 |
| 024 | 8th Timeline | 42:Pulsating | 88 | 70 | 024 |
| 025 | Dty Ba\$\$ | 21:Synth Bass | 88 | 70 | 025 |
| 026 | Biyoon | 34:Synth Lead | 88 | 70 | 026 |
| 027 | Crazy DTMF | 42:Pulsating | 88 | 70 | 027 |
| 028 | Disco Pad? | 38:Synth PolyKey | 88 | 70 | 028 |
| 029 | Unstable P | 42:Pulsating | 88 | 70 | 029 |
| 030 | Noise Lead | 34:Synth Lead | 88 | 70 | 030 |
| 031 | SQR Reso Bass | 21:Synth Bass | 88 | 70 | 031 |
| 032 | White Bass | 21:Synth Bass | 88 | 70 | 032 |
| 033 | Tomorrow FX | 39:Synth FX | 88 | 70 | 033 |
| 034 | Space Lead | 34:Synth Lead | 88 | 70 | 034 |
| 035 | Random Slash | 39:Synth FX | 88 | 70 | 035 |
| 036 | Portamento Bass | 21:Synth Bass | 88 | 70 | 036 |

| No. | Name | Category | MSB | LSB | PC |
|-----|-----------------|------------------|-----|-----|-----|
| 037 | Lead 101 | 34:Synth Lead | 88 | 70 | 037 |
| 038 | SH Tech Bass | 21:Synth Bass | 88 | 70 | 038 |
| 039 | Sqr⋐ Bass | 21:Synth Bass | 88 | 70 | 039 |
| 040 | Damage SH01 | 34:Synth Lead | 88 | 70 | 040 |
| 041 | SH SQR Lead | 34:Synth Lead | 88 | 70 | 041 |
| 042 | Reso Melo SH | 40:Synth Seq/Pop | 88 | 70 | 042 |
| 043 | Fat Saw Lead | 34:Synth Lead | 88 | 70 | 043 |
| 044 | NRG SQR Lead | 34:Synth Lead | 88 | 70 | 044 |
| 045 | NRG HPF Lead | 34:Synth Lead | 88 | 70 | 045 |
| 046 | Solo Bass | 21:Synth Bass | 88 | 70 | 046 |
| 047 | Square Lead | 34:Synth Lead | 88 | 70 | 047 |
| 048 | SH Bass | 21:Synth Bass | 88 | 70 | 048 |
| 049 | Square Syn Kick | 39:Synth FX | 88 | 70 | 049 |
| 050 | Reso Env Pad | 36:Synth Pad/Str | 88 | 70 | 050 |
| 051 | SH- () Bass | 21:Synth Bass | 88 | 70 | 051 |

JUNO-106 OSC model

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 001 | NothinButTheRain | 36:Synth Pad/Str | 88 | 71 | 001 |
| 002 | Green Grid | 38:Synth PolyKey | 88 | 71 | 002 |
| 003 | Ju-Funk Bass | 21:Synth Bass | 88 | 71 | 003 |
| 004 | PulseControl Pad | 36:Synth Pad/Str | 88 | 71 | 004 |
| 005 | Cordion | 36:Synth Pad/Str | 88 | 71 | 005 |
| 006 | JUNO Viola | 36:Synth Pad/Str | 88 | 71 | 006 |
| 007 | 106 Swell | 36:Synth Pad/Str | 88 | 71 | 007 |
| 800 | Glow Pad | 36:Synth Pad/Str | 88 | 71 | 800 |
| 009 | Ice & Fire | 38:Synth PolyKey | 88 | 71 | 009 |
| 010 | Brilliant JUNO | 38:Synth PolyKey | 88 | 71 | 010 |
| 011 | JUNO Strings | 36:Synth Pad/Str | 88 | 71 | 011 |
| 012 | JUNO Pad 1 | 36:Synth Pad/Str | 88 | 71 | 012 |
| 013 | Super Moon | 36:Synth Pad/Str | 88 | 71 | 013 |
| 014 | JUNO Bass 1 | 21:Synth Bass | 88 | 71 | 014 |
| 015 | SubSpace 106 | 21:Synth Bass | 88 | 71 | 015 |
| 016 | U Know Bass 106 | 21:Synth Bass | 88 | 71 | 016 |
| 017 | Harmonica Lead | 34:Synth Lead | 88 | 71 | 017 |
| 018 | Insert Coin! | 38:Synth PolyKey | 88 | 71 | 018 |
| 019 | Computer Clav | 38:Synth PolyKey | 88 | 71 | 019 |
| 020 | Harp Breeze | 14:Bell | 88 | 71 | 020 |
| 021 | Quacky JUNO | 38:Synth PolyKey | 88 | 71 | 021 |
| 022 | Analog Saw Poly | 38:Synth PolyKey | 88 | 71 | 022 |
| 023 | JUNO Pad 2 | 36:Synth Pad/Str | 88 | 71 | 023 |
| 024 | JUNO Bass 2 | 21:Synth Bass | 88 | 71 | 024 |
| 025 | JUNO Pad 3 | 36:Synth Pad/Str | 88 | 71 | 025 |
| 026 | JUNO Bass 3 | 21:Synth Bass | 88 | 71 | 026 |
| 027 | JUNO Pad 4 | 36:Synth Pad/Str | 88 | 71 | 027 |
| 028 | PWM⋐ Bass | 21:Synth Bass | 88 | 71 | 028 |
| 029 | Above the Clouds | 36:Synth Pad/Str | 88 | 71 | 029 |
| 030 | Old Days Key | 38:Synth PolyKey | 88 | 71 | 030 |
| 031 | Ye Olde JUNO Ld | 34:Synth Lead | 88 | 71 | 031 |

Cross FM OSC model

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|---------------|-----|-----|-----|
| 001 | Bell 8 | 14:Bell | 88 | 72 | 001 |
| 002 | Hit & Hold | 39:Synth FX | 88 | 72 | 002 |
| 003 | Noisy Marbles | 42:Pulsating | 88 | 72 | 003 |
| 004 | Incoming in Big | 14:Bell | 88 | 72 | 004 |
| 005 | Slow Attack Bell | 14:Bell | 88 | 72 | 005 |
| 006 | Kick Bass | 21:Synth Bass | 88 | 72 | 006 |

| No. | Name | Category | MSB | LSB | PC |
|------------|--------------------|-----------------------------------|----------|----------|------------|
| 007 | Bot Bell | 14:Bell | 88 | 72 | 007 |
| 008 | Alien Temple | 14:Bell | 88 | 72 | 008 |
| 009 | Whiny Wub | 21:Synth Bass | 88 | 72 | 009 |
| 010 | Dripper EP | 38:Synth PolyKey | 88 | 72 | 010 |
| 011 | Bwoink | 38:Synth PolyKey | 88 | 72 | 011 |
| 012 | Marimba Phone | 40:Synth Seq/Pop | 88 | 72 | 012 |
| 013 | Dirty Bass | 21:Synth Bass | 88 | 72 | 013 |
| 014 | PWM | 38:Synth PolyKey | 88 | 72 | 014 |
| 015 | Space Marimba | 38:Synth PolyKey | 88 | 72 | 015 |
| 016 | Pluck | 40:Synth Seq/Pop | 88 | 72 | 016 |
| 017 | Classic Bass | 21:Synth Bass | 88 | 72 | 017 |
| 018 | Avantgarde | 14:Bell | 88 | 72 | 018 |
| 019 | Tubolar Bell | 14:Bell | 88 | 72 | 019 |
| 020 | Ambiente | 36:Synth Pad/Str | 88 | 72 | 020 |
| 021 | Crystal Glass | 14:Bell | 88 | 72 | 021 |
| 022 | Silence-B | 42:Pulsating | 88 | 72 | 022 |
| 023 | E.Piano 1 | 38:Synth PolyKey | 88 | 72 | 023 |
| 024 | Bell B | 14:Bell | 88 | 72 | 024 |
| 025 | Lead | 34:Synth Lead | 88 | 72 | 025 |
| 026 | Lead C Lead P | 34:Synth Lead | 88 | 72 | 026 |
| 027 | Delay Glass Plk | 34:Synth Lead 40:Synth Seg/Pop | 88 88 | 72 72 | 027 028 |
| 028 029 | Glassy Brass | 35:Synth Brass | 88 | 72 | 028 |
| 030 | Old Tape Bell | 14:Bell | 88 | 72 | 030 |
| 030 | Plastic Pluck | 40:Synth Seq/Pop | 88 | 72 | 030 |
| 032 | Grass Land | 36:Synth Pad/Str | 88 | 72 | 031 |
| 033 | Satellites | 14:Bell | 88 | 72 | 033 |
| 034 | Echo Pluck | 34:Synth Lead | 88 | 72 | 034 |
| 035 | Synth Lead 61 | 34:Synth Lead | 88 | 72 | 035 |
| 036 | Synth Lead 62 | 34:Synth Lead | 88 | 72 | 036 |
| 037 | Synth Bass 63 | 21:Synth Bass | 88 | 72 | 037 |
| 038 | Bell 9 | 14:Bell | 88 | 72 | 038 |
| 039 | Fujio-chang | 42:Pulsating | 88 | 72 | 039 |
| 040 | Silver Droplets | 42:Pulsating | 88 | 72 | 040 |
| 041 | One Hundred | 38:Synth PolyKey | 88 | 72 | 041 |
| 042 | Wind Caves | 14:Bell | 88 | 72 | 042 |
| 043 | Berly Keys | 38:Synth PolyKey | 88 | 72 | 043 |
| 044 | Gnissel Lead | 34:Synth Lead | 88 | 72 | 044 |
| 045 | Uncontrolla Bell | 14:Bell | 88 | 72 | 045 |
| 046 | Organl C | 36:Synth Pad/Str | 88 | 72 | 046 |
| 047 | Odd Pluck | 40:Synth Seq/Pop | 88 | 72 | 047 |
| 048 | Mosquito 1 | 42:Pulsating | 88 | 72 | 048 |
| 049 | Light Bell | 14:Bell | 88 | 72 | 049 |
| 050 | Buzz Bell | 34:Synth Lead | 88 | 72 | 050 |
| 051 | PP Dash | 40:Synth Seq/Pop | 88 | 72 | 051 |
| 052 | Small Talk | 39:Synth FX | 88 | 72 | 052 |
| 053 | Cross Bell 1 | 14:Bell | 88 | 72 | 053 |
| 054 | Donk Bass | 21:Synth Bass | 88 | 72 | 054 |
| 055 | Marimba | 40:Synth Seq/Pop | 88 | 72 | 055 |
| 056 | Mystery Pluck | 40:Synth Seq/Pop | 88 | 72 | 056 |
| 057 | Space Journey | 39:Synth FX | 88 | 72 | 057 |
| 058 | Bite | 34:Synth Lead | 88 | 72 | 058 059 |
| 059 060 | Cry Lead Pluck 2 | 34:Synth Lead | 88 88 | 72 | 060 |
| | | 38:Synth PolyKey | 88 | 72 | 060 |
| 061 | Dream Cross Boll 2 | 38:Synth PolyKey 14:Bell | 88 | 72 72 | 061 |
| 062 | Cross Bell 2 | | | | |
| 063 064 | Lead B Pluck C | 34:Synth Lead 40:Synth Seg/Pop | 88 88 | 72 72 | 063 064 |
| 064 | E.Piano 2 | 38:Synth PolyKey | 88 | 72 | 065 |
| 066 | Clavi | 38:Synth PolyKey 38:Synth PolyKey | 88 | 72 | 065 |
| 067 | Dist Bass | 21:Synth Bass | 88 | 72 | 067 |
| | Reso Pluck | 40:Synth Seq/Pop | 88 | 72 | 068 |
| 068 | NESO FINCK | 40.5упш зец/Рор | ŏŏ | 12 | 000 |

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 069 | S&H Robot | 39:Synth FX | 88 | 72 | 069 |
| 070 | E.Marinba | 40:Synth Seq/Pop | 88 | 72 | 070 |
| 071 | 2OP Plack | 40:Synth Seq/Pop | 88 | 72 | 071 |
| 072 | Detroit Solid Bs | 21:Synth Bass | 88 | 72 | 072 |
| 073 | Soft Melo | 34:Synth Lead | 88 | 72 | 073 |
| 074 | Dirty Bell Brass | 35:Synth Brass | 88 | 72 | 074 |
| 075 | Remote Rave | 34:Synth Lead | 88 | 72 | 075 |
| 076 | Plastic Bass | 21:Synth Bass | 88 | 72 | 076 |
| 077 | Caramel Box | 14:Bell | 88 | 72 | 077 |
| 078 | Pad 1 | 36:Synth Pad/Str | 88 | 72 | 078 |
| 079 | Pad 2 | 36:Synth Pad/Str | 88 | 72 | 079 |
| 080 | Hollow Space | 34:Synth Lead | 88 | 72 | 080 |
| 081 | Ripple Chime | 14:Bell | 88 | 72 | 081 |
| 082 | Robot Lead | 34:Synth Lead | 88 | 72 | 082 |
| 083 | Space Pan | 38:Synth PolyKey | 88 | 72 | 083 |
| 084 | Pluck One | 34:Synth Lead | 88 | 72 | 084 |
| 085 | Soft Bell | 14:Bell | 88 | 72 | 085 |
| 086 | Porta Mono Lead | 40:Synth Seq/Pop | 88 | 72 | 086 |
| 087 | 313 Ring | 14:Bell | 88 | 72 | 087 |
| 088 | Glissen | 14:Bell | 88 | 72 | 088 |

Ring OSC model

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 001 | Synth Bass 64 | 21:Synth Bass | 88 | 73 | 001 |
| 002 | Ring Mod Sweep | 42:Pulsating | 88 | 73 | 002 |
| 003 | Mo Drum | 39:Synth FX | 88 | 73 | 003 |
| 004 | Ring Wash BPF | 36:Synth Pad/Str | 88 | 73 | 004 |
| 005 | Broke Box | 14:Bell | 88 | 73 | 005 |
| 006 | Tek Blip | 40:Synth Seq/Pop | 88 | 73 | 006 |
| 007 | Ring LFO Sweep | 42:Pulsating | 88 | 73 | 007 |
| 800 | Electric Ring | 21:Synth Bass | 88 | 73 | 008 |
| 009 | Overdriven Ring | 14:Bell | 88 | 73 | 009 |
| 010 | Anello Pad | 36:Synth Pad/Str | 88 | 73 | 010 |
| 011 | Spinning Ring | 42:Pulsating | 88 | 73 | 011 |
| 012 | Dimension Ring | 42:Pulsating | 88 | 73 | 012 |
| 013 | Dark Ambience | 36:Synth Pad/Str | 88 | 73 | 013 |
| 014 | Mono Ring Bell | 14:Bell | 88 | 73 | 014 |
| 015 | Ring Matic | 14:Bell | 88 | 73 | 015 |
| 016 | Ring Vel | 14:Bell | 88 | 73 | 016 |
| 017 | Ring Harm | 34:Synth Lead | 88 | 73 | 017 |
| 018 | Ring Harm B | 34:Synth Lead | 88 | 73 | 018 |
| 019 | Ringin Bass | 21:Synth Bass | 88 | 73 | 019 |
| 020 | Dark Fantasy | 36:Synth Pad/Str | 88 | 73 | 020 |
| 021 | Proxima | 39:Synth FX | 88 | 73 | 021 |
| 022 | Ambient Lead | 34:Synth Lead | 88 | 73 | 022 |
| 023 | Raga Bass | 21:Synth Bass | 88 | 73 | 023 |
| 024 | Haunting | 14:Bell | 88 | 73 | 024 |
| 025 | Synth Seq/Pop 20 | 40:Synth Seq/Pop | 88 | 73 | 025 |
| 026 | Kinda Modulated | 42:Pulsating | 88 | 73 | 026 |
| 027 | Drop Module | 21:Synth Bass | 88 | 73 | 027 |
| 028 | Silo Pluck | 34:Synth Lead | 88 | 73 | 028 |
| 029 | Pesky Lead | 34:Synth Lead | 88 | 73 | 029 |
| 030 | Ring Tone | 34:Synth Lead | 88 | 73 | 030 |
| 031 | Ring Hit | 44:Hit | 88 | 73 | 031 |
| 032 | LFO Key | 38:Synth PolyKey | 88 | 73 | 032 |
| 033 | IS S&H | 42:Pulsating | 88 | 73 | 033 |
| 034 | Black Bell | 14:Bell | 88 | 73 | 034 |
| 035 | Ring Bell | 14:Bell | 88 | 73 | 035 |
| 036 | Ring FX | 39:Synth FX | 88 | 73 | 036 |
| 037 | Fade Point | 42:Pulsating | 88 | 73 | 037 |

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 038 | Ring Attack | 38:Synth PolyKey | 88 | 73 | 038 |
| 039 | Ring Panic | 21:Synth Bass | 88 | 73 | 039 |
| 040 | Ring Magic B | 14:Bell | 88 | 73 | 040 |
| 041 | Sub Bass R | 21:Synth Bass | 88 | 73 | 041 |
| 042 | Future House Bs | 21:Synth Bass | 88 | 73 | 042 |
| 043 | UK Bass Lead | 34:Synth Lead | 88 | 73 | 043 |
| 044 | Future Bass Stab | 21:Synth Bass | 88 | 73 | 044 |
| 045 | Retro Wave Pad | 36:Synth Pad/Str | 88 | 73 | 045 |
| 046 | Space Wave Pad | 36:Synth Pad/Str | 88 | 73 | 046 |
| 047 | Solid Ring Bass | 21:Synth Bass | 88 | 73 | 047 |
| 048 | Tech 'n' Bass | 21:Synth Bass | 88 | 73 | 048 |
| 049 | Pulsing Train | 42:Pulsating | 88 | 73 | 049 |

Wavetable OSC model

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 001 | Synth Lead 62 | 34:Synth Lead | 88 | 74 | 001 |
| 002 | Bell Pad ALiVE | 14:Bell | 88 | 74 | 002 |
| 003 | Industrial Rev4d | 42:Pulsating | 88 | 74 | 003 |
| 004 | LearningMachines | 42:Pulsating | 88 | 74 | 004 |
| 005 | FeedbackOsc Izit | 42:Pulsating | 88 | 74 | 005 |
| 006 | IndexTransitions | 34:Synth Lead | 88 | 74 | 006 |
| 007 | Resurgence 4D | 36:Synth Pad/Str | 88 | 74 | 007 |
| 008 | FM Parade | 42:Pulsating | 88 | 74 | 800 |
| 009 | Lozza Wub | 21:Synth Bass | 88 | 74 | 009 |
| 010 | Metal Droid Bass | 21:Synth Bass | 88 | 74 | 010 |
| 011 | Morph Mode | 38:Synth PolyKey | 88 | 74 | 011 |
| 012 | WT Scanner | 38:Synth PolyKey | 88 | 74 | 012 |
| 013 | Series Finale | 39:Synth FX | 88 | 74 | 013 |
| 014 | Circuit Breath 1 | 34:Synth Lead | 88 | 74 | 014 |
| 015 | Round Sub Glide | 21:Synth Bass | 88 | 74 | 015 |
| 016 | Circuit Breath 2 | 34:Synth Lead | 88 | 74 | 016 |
| 017 | UniSqr Spctl Hit | 44:Hit | 88 | 74 | 017 |
| 018 | Vactrol Strike | 40:Synth Seq/Pop | 88 | 74 | 018 |
| 019 | Gargantua Bass | 21:Synth Bass | 88 | 74 | 019 |
| 020 | Table GL1t[# | 42:Pulsating | 88 | 74 | 020 |
| 021 | Robot Talk | 34:Synth Lead | 88 | 74 | 021 |
| 022 | Oh Yeah !!! | 38:Synth PolyKey | 88 | 74 | 022 |
| 023 | Radioactive Wind | 36:Synth Pad/Str | 88 | 74 | 023 |
| 024 | Lo-Fi Bell | 14:Bell | 88 | 74 | 024 |
| 025 | Wavefolder Bass | 21:Synth Bass | 88 | 74 | 025 |
| 026 | Reverse Dream | 36:Synth Pad/Str | 88 | 74 | 026 |
| 027 | Frog Talk | 39:Synth FX | 88 | 74 | 027 |
| 028 | Tron Pad | 36:Synth Pad/Str | 88 | 74 | 028 |
| 029 | Future Acid | 40:Synth Seq/Pop | 88 | 74 | 029 |
| 030 | Saw Spectral | 38:Synth PolyKey | 88 | 74 | 030 |
| 031 | Circuit Error | 38:Synth PolyKey | 88 | 74 | 031 |
| 032 | 8Bit Game Bass | 21:Synth Bass | 88 | 74 | 032 |
| 033 | WT Gamelan 1 | 14:Bell | 88 | 74 | 033 |
| 034 | Music Box WT | 14:Bell | 88 | 74 | 034 |
| 035 | Future Pop Chord | 42:Pulsating | 88 | 74 | 035 |
| 036 | Glacier Cave | 14:Bell | 88 | 74 | 036 |
| 037 | Vibration | 38:Synth PolyKey | 88 | 74 | 037 |
| 038 | Circuit Bass | 21:Synth Bass | 88 | 74 | 038 |
| 039 | Deep Sauce | 42:Pulsating | 88 | 74 | 039 |
| 040 | Synth Lead 61 | 34:Synth Lead | 88 | 74 | 040 |
| 041 | Synth Lead 63 | 21:Synth Bass | 88 | 74 | 041 |
| 042 | Ohh Yeah!? | 36:Synth Pad/Str | 88 | 74 | 042 |
| 043 | FM EP on Wavtabl | 38:Synth PolyKey | 88 | 74 | 043 |
| 044 | Water Beneath Us | 36:Synth Pad/Str | 88 | 74 | 044 |
| 045 | Dellinger Effect | 39:Synth FX | 88 | 74 | 045 |

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 046 | Wave Speak | 42:Pulsating | 88 | 74 | 046 |
| 047 | Big Mouth | 21:Synth Bass | 88 | 74 | 047 |
| 048 | Walker | 38:Synth PolyKey | 88 | 74 | 048 |
| 049 | Pad Pastures | 36:Synth Pad/Str | 88 | 74 | 049 |
| 050 | Morph Pad | 36:Synth Pad/Str | 88 | 74 | 050 |
| 051 | Yikes | 34:Synth Lead | 88 | 74 | 051 |
| 052 | Stack Feedback | 34:Synth Lead | 88 | 74 | 052 |
| 053 | Deep Pad | 36:Synth Pad/Str | 88 | 74 | 053 |
| 054 | Sine Garden Pad | 38:Synth PolyKey | 88 | 74 | 054 |
| 055 | Wave Edge | 38:Synth PolyKey | 88 | 74 | 055 |
| 056 | Chit Chat | 42:Pulsating | 88 | 74 | 056 |
| 057 | AIOIEA | 36:Synth Pad/Str | 88 | 74 | 057 |
| 058 | Metal Drop | 39:Synth FX | 88 | 74 | 058 |
| 059 | Tap FX | 39:Synth FX | 88 | 74 | 059 |
| 060 | S&H Bass | 42:Pulsating | 88 | 74 | 060 |
| 061 | Rhythm Warp | 42:Pulsating | 88 | 74 | 061 |
| 062 | Voxylor | 42:Pulsating | 88 | 74 | 062 |
| 063 | Radio Tune | 34:Synth Lead | 88 | 74 | 063 |
| 064 | Wow Lead | 34:Synth Lead | 88 | 74 | 064 |
| 065 | Fold Bell | 14:Bell | 88 | 74 | 065 |
| 066 | Sync Bass B | 21:Synth Bass | 88 | 74 | 066 |
| 067 | Warp Pad | 36:Synth Pad/Str | 88 | 74 | 067 |
| 068 | Hexa Bass | 21:Synth Bass | 88 | 74 | 068 |
| 069 | Space Alien | 42:Pulsating | 88 | 74 | 069 |
| 070 | Scat Pluck | 40:Synth Seq/Pop | 88 | 74 | 070 |
| 071 | Digital Harpsico | 38:Synth PolyKey | 88 | 74 | 071 |
| 072 | Wave Dist Gtr | 38:Synth PolyKey | 88 | 74 | 072 |
| 073 | Mosquito 2 | 38:Synth PolyKey | 88 | 74 | 073 |
| 074 | FM Oct Mod | 39:Synth FX | 88 | 74 | 074 |
| 075 | Digi Mid Bass | 21:Synth Bass | 88 | 74 | 075 |
| 076 | West Coast | 38:Synth PolyKey | 88 | 74 | 076 |
| 077 | Mustache Wave | 38:Synth PolyKey | 88 | 74 | 077 |
| 078 | Uni HPF Warp | 38:Synth PolyKey | 88 | 74 | 078 |
| 079 | Wavetable Clavi | 38:Synth PolyKey | 88 | 74 | 079 |
| 080 | WT Gamelan 2 | 14:Bell | 88 | 74 | 080 |
| 081 | Tribal Acid | 34:Synth Lead | 88 | 74 | 081 |
| 082 | Choco Mint Synth | 38:Synth PolyKey | 88 | 74 | 082 |
| 083 | Elek Banjo | 38:Synth PolyKey | 88 | 74 | 083 |
| 084 | Clean Guitar WT | 38:Synth PolyKey | 88 | 74 | 084 |
| 085 | OD-1 Guitar WT | 38:Synth PolyKey | 88 | 74 | 085 |
| 086 | Clean Synth WT | 38:Synth PolyKey | 88 | 74 | 086 |
| 087 | Clean Square WT | 38:Synth PolyKey | 88 | 74 | 087 |
| 088 | Up Sweep Pad | 36:Synth Pad/Str | 88 | 74 | 088 |
| 089 | Table | 34:Synth Lead | 88 | 74 | 089 |
| 090 | Oye | 38:Synth PolyKey | 88 | 74 | 090 |
| 091 | Hammer Down | 21:Synth Bass | 88 | 74 | 091 |
| 092 | Harmonics Seq | 36:Synth Pad/Str | 88 | 74 | 092 |
| 093 | Uni Sqr Warp Ld | 34:Synth Lead | 88 | 74 | 093 |
| 094 | Fly Bye FX | 39:Synth FX | 88 | 74 | 094 |
| 095 | Flutable | 34:Synth Lead | 88 | 74 | 095 |

Chord OSC model

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 001 | Synth Pad/Str 71 | 36:Synth Pad/Str | 88 | 75 | 001 |
| 002 | Synth Pad/Str 72 | 36:Synth Pad/Str | 88 | 75 | 002 |
| 003 | 7 Fluctuations | 42:Pulsating | 88 | 75 | 003 |
| 004 | Sustainability 4 | 42:Pulsating | 88 | 75 | 004 |
| 005 | Descendant 7sus4 | 42:Pulsating | 88 | 75 | 005 |
| 006 | Chordplex | 44:Hit | 88 | 75 | 006 |
| 007 | Bit Chord | 34:Synth Lead | 88 | 75 | 007 |

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 800 | Fade Chord | 36:Synth Pad/Str | 88 | 75 | 008 |
| 009 | Major Memories | 34:Synth Lead | 88 | 75 | 009 |
| 010 | 4th Magic <> | 42:Pulsating | 88 | 75 | 010 |
| 011 | 9th Lead | 34:Synth Lead | 88 | 75 | 011 |
| 012 | Chord Pad P2 | 36:Synth Pad/Str | 88 | 75 | 012 |
| 013 | Cloud Ripples | 42:Pulsating | 88 | 75 | 013 |
| 014 | Pingpong | 38:Synth PolyKey | 88 | 75 | 014 |
| 015 | Pulsating 15 | 42:Pulsating | 88 | 75 | 015 |
| 016 | Pulsating 16 | 42:Pulsating | 88 | 75 | 016 |
| 017 | Synth Pad/Str 73 | 36:Synth Pad/Str | 88 | 75 | 017 |
| 018 | Basic Stab | 44:Hit | 88 | 75 | 018 |
| 019 | Chord Pad | 36:Synth Pad/Str | 88 | 75 | 019 |
| 020 | Chord Pad P | 36:Synth Pad/Str | 88 | 75 | 020 |
| 021 | Chord Slice | 42:Pulsating | 88 | 75 | 021 |
| 022 | Chord Sine | 36:Synth Pad/Str | 88 | 75 | 022 |
| 023 | Wavy Brass | 35:Synth Brass | 88 | 75 | 023 |
| 024 | Chord Ripples | 42:Pulsating | 88 | 75 | 024 |
| 025 | Chordy Dance | 38:Synth PolyKey | 88 | 75 | 025 |

Drawing OSC model

| No. | Name | Category | MSB | LSB | PC |
|-----|------------------|------------------|-----|-----|-----|
| 001 | Scribble Bass | 21:Synth Bass | 88 | 76 | 001 |
| 002 | Box Bot Lead | 34:Synth Lead | 88 | 76 | 002 |
| 003 | Vision EP | 38:Synth PolyKey | 88 | 76 | 003 |
| 004 | Drawing Guitar | 38:Synth PolyKey | 88 | 76 | 004 |
| 005 | Foreign Pluck | 40:Synth Seq/Pop | 88 | 76 | 005 |
| 006 | Load "*", 8,1 | 40:Synth Seq/Pop | 88 | 76 | 006 |
| 007 | Draw Dream | 38:Synth PolyKey | 88 | 76 | 007 |
| 800 | Morning Organ | 38:Synth PolyKey | 88 | 76 | 800 |
| 009 | Drawing Sine Ld | 34:Synth Lead | 88 | 76 | 009 |
| 010 | Refresh Rate | 42:Pulsating | 88 | 76 | 010 |
| 011 | DigitizerTab 100 | 39:Synth FX | 88 | 76 | 011 |
| 012 | Deetar | 38:Synth PolyKey | 88 | 76 | 012 |
| 013 | Phase Pluck | 42:Pulsating | 88 | 76 | 013 |
| 014 | Direct Lead | 34:Synth Lead | 88 | 76 | 014 |
| 015 | Drawing Bell | 14:Bell | 88 | 76 | 015 |
| 016 | DrawingTri Bs MW | 21:Synth Bass | 88 | 76 | 016 |
| 017 | Building | 38:Synth PolyKey | 88 | 76 | 017 |
| 018 | Drawing Organ | 38:Synth PolyKey | 88 | 76 | 018 |
| 019 | Fat Draw Bass | 21:Synth Bass | 88 | 76 | 019 |
| 020 | Draw | 34:Synth Lead | 88 | 76 | 020 |
| 021 | Drawn Droid | 38:Synth PolyKey | 88 | 76 | 021 |
| 022 | Toy Chime | 14:Bell | 88 | 76 | 022 |

PCM OSC model

| No. | Name | Category | MSB | LSB | PC |
|-----|----------------|------------------|-----|-----|-----|
| 001 | JD Piano | 38:Synth PolyKey | 88 | 77 | 001 |
| 002 | Cosine Bass | 21:Synth Bass | 88 | 77 | 002 |
| 003 | Warm Pad | 36:Synth Pad/Str | 88 | 77 | 003 |
| 004 | Warm Stack Pad | 36:Synth Pad/Str | 88 | 77 | 004 |
| 005 | Cathedral | 38:Synth PolyKey | 88 | 77 | 005 |
| 006 | Harmonic Bars | 38:Synth PolyKey | 88 | 77 | 006 |
| 007 | FM Brass | 35:Synth Brass | 88 | 77 | 007 |
| 800 | Organ 1 | 38:Synth PolyKey | 88 | 77 | 800 |
| 009 | Organ 2 | 38:Synth PolyKey | 88 | 77 | 009 |
| 010 | Organ 3 | 38:Synth PolyKey | 88 | 77 | 010 |
| 011 | Nasty Bass | 21:Synth Bass | 88 | 77 | 011 |

Rhythm Set List

| No. | Name | MSB | LSB | PC |
|------------|-----------------------|------------|----------|------------------|
| 001 | Synthesized Kit | 86 | 64 | 001 |
| 002 | IDM Kit | 86 | 64 | 002 |
| 003 | Chill-Hop Kit | 86 | 64 | 003 |
| 004 | Thumper Kit | 86 | 64 | 004 |
| 005 | Techno Kit | 86 | 64 | 005 |
| 006 | Drum & Step | 86 | 64 | 006 |
| 007 | Old Machine Kit | 86 | 64 | 007 |
| 008 | Big Breaks Kit | 86 | 64 | 008 |
| 009 | Machine Kit | 86 | 64 | 009 |
| 010 | Toy Kit | 86 | 64 | 010 |
| 011 | DG Kit | 86 | 64 | 011 |
| 012 | 908 Kit | 86 | 64 | 012 |
| 013 | Euro Modular Kit | 86 | 64 | 013 |
| 014 | Friendship Kit | 86 | 64 | 014 |
| 015 | Plastic Kit | 86 | 64 | 015 |
| 016 | Mod Kit | 86 | 64 | 016 |
| 017 | Dark GB Kit | 86 | 64 | 017 |
| 018 | Power X0X | 86 | 64 | 018 |
| 019 | Elektro Exp. Kit | 86 | 64 | 019 |
| 020 | Club Floor Kit | 86 | 64 | 020 |
| 021 | Noise & Sines | 86 | 64 | 021 |
| 022 | Lo-Fi or Not Kit | 86 | 64 | 022 |
| 023 | TR-707 Kit | 86 | 64 | 023 |
| 024 | Heartbeat Kit | 86 | 64 | 024 |
| 025 | Trap Kit | 86 | 64 | 025 |
| 026 | Gully Kit | 86 | 64 | 026 |
| 027 | WT Jam | 86 | 64 | 027 |
| 028 | Punchy | 86 | 64 | 028 |
| 029 | Phat Tech | 86 | 64 | 029 |
| 030 | Mixture Kit | 86 | 64 | 030 |
| 031 | Hard Kit | 86 | 64 | 031 |
| 032 | Nod Kit | 86 | 64 | 032 |
| 033 | Ambi Kit | 86 | 64 | 033 |
| 034 | Industrial Kit | 86 | 64 | 034 |
| 035 | Experimental Kit | 86 | 64 | 035 |
| 036 | Hard Groove Kit | 86 | 64 | 036 |
| 037 | Jungle Kit | 86 | 64 | 037 |
| 038 | Hard Psy Kit | 86 86 | 64 64 | 038 |
| 039 040 | Ambient Kit FXM Kick | | 64 | 040 |
| 040 | Saturated Kit | | 64 | 040 |
| | | 86 | 64 | 041 |
| 042 043 | DnB 808 DnB B | 86 | 64 | 043 |
| 043 | TR-909 Kit | | 64 | 044 |
| 044 | Bedroom Lofi Kit | 86 | 64 | 045 |
| 045 | Tech House Kit | 86 | 64 | 046 |
| 046 | Afro Kit | | 64 | 047 |
| 047 | Popping Up | 86 | 64 | 047 |
| 048 | 9090 Kit | | 64 | 049 |
| 049 | אוא טעטנ אוו | 0 0 | 04 | U 1 9 |

Pattern List

| No. | Name |
|-----|------------------|
| 001 | Do Synths Dream? |
| 002 | Paati Pi |
| 003 | Flutable |
| 004 | Romper |
| 005 | Lofi Beats |
| 006 | Space Trip Beats |
| 007 | Electro Machine |
| 008 | Fern Gully |
| 009 | Dist Lead Beats |
| 010 | Pluck Syn Beats |
| 011 | Mystery Spiral |
| 012 | Into the void |
| 013 | Night Drop |
| 014 | Tamarind |
| 015 | Future Lovers |
| 016 | Saw&Noise Pluck |
| 017 | Perfect Rise |
| 018 | Misc Machines |
| 019 | Drum 'n' Bells |
| 020 | Phat Seq Beats |
| 021 | Wobble Beats |
| 022 | Tekno Robot :] |
| 023 | Cold Shock Broke |

MIDI Implementation Chart

MIDI Implementation Chart (Tone) (P.206)
MIDI Implementation Chart (Rhythm) (P.208)
MIDI Implementation Chart (SYSTEM) (P.209)

MIDI Implementation Chart (Tone)

| Function | | Transmitted | Recognized | Remarks |
|----------------------|------------------------|-------------|------------|--------------------------------|
| Basic Channel | | 1-16 | 1-16 | |
| MODE | | MODE3 | MODE3 | |
| Note Number | | 0-127 | 0-127 | |
| Velocity | Note On | 0 | 0 | |
| | Note Off | х | X | |
| Channel Key Pressure | Note on | o (*1) | o (*2) | |
| Pitch Bend | | | 0 (2) | |
| | 1 | o (*1) | o (*2) | Modulation Wheel |
| Control Change | 7 | | | AMP LEVEL (Pattern Part Level) |
| | | 0 | 0 | |
| | 10 | 0 | 0 | AMP PAN (Pattern Part Pan) |
| | 16 | 0 | 0 | LFO RATE |
| | 18 | 0 | 0 | LFO PITCH |
| | 19 | 0 | 0 | LFO FILTER |
| | 20 | 0 | 0 | LFO FADE |
| | 21 | 0 | 0 | PITCH |
| | 28 | 0 | 0 | FILTER SUSTAIN |
| | 29 | 0 | 0 | FILTER RELEASE |
| | 31 | 0 | 0 | AMP SUSTAIN |
| | 64 | Х | 0 | Hold Pedal |
| | 66 | Х | 0 | Sostenuto |
| | 71 | 0 | 0 | FILTER RESONANCE |
| | 72 | 0 | 0 | AMP RELEASE |
| | 73 | 0 | 0 | AMP ATTACK |
| | 74 | 0 | 0 | FILTER CUTOFF |
| | 75 | 0 | 0 | AMP DECAY |
| | 77 | 0 | 0 | TIMBRE |
| | 78 | 0 | 0 | FILTER KBD |
| | 79 | 0 | 0 | FILTER HPF |
| | 80 | 0 | 0 | LFO AMP |
| | 81 | 0 | О | FILTER ENV |
| | 82 | 0 | 0 | FILTER ATTACK |
| | 83 | 0 | 0 | FILTER DECAY |
| | 84 | X | 0 | Portamento Control |
| | 85 | 0 | 0 | SLIDER 1 |
| | 86 | 0 | 0 | SLIDER 2 |
| | 87 | 0 | 0 | SLIDER 3 |
| | 88 | 0 | 0 | SLIDER 4 |
| | 90 | 0 | 0 | FILTER DRIVE |
| Program Change | LSB | 64-77 (*3) | 64-77 (*3) | TIETER DINIVE |
| Program Change | MSB | 87-88 (*3) | 87-88 (*3) | |
| | PC W2R | | | |
| Custom Fusioni | ۲۲ | 0-127 (*3) | 0-127 (*3) | |
| System Exclusive | . Comm Do -:+: | X | X | |
| System Common | : Song Position | X | X | |
| | : Song Select | X | X | |
| C + D !T | : Tune Request | Х | Х | <u> </u> |
| System Real Time | :Clock | 0 | 0 | |
| | :Start | 0 | 0 | |
| | :Continue | X | 0 | |
| | :Stop | 0 | 0 | |
| AUX Message | :All Sound Off | Х | 0 | |
| | :Reset All Controllers | X | 0 | |

| :Local On/Off | х | х | |
|------------------|---|---|-------------------------------|
| : All Notes Off | Х | 0 | |
| : Omni Mode Off | Х | 0 | Same process as All Notes Off |
| : Omni Mode On | Х | 0 | Same process as All Notes Off |
| : Mono Mode On | Х | х | |
| : Poly Mode On | Х | х | |
| : Active Sensing | 0 | 0 | |
| : System Reset | Х | Х | |

^(*1) Can be transmitted from D-MOTION only

^(*2) Channel Key Pressure and all Control Change messages except for CC#0 and CC#32 are recognized depending on settings of MATRIX

^(*3) See Sound List

MIDI Implementation Chart (Rhythm)

| Function | | Transmitted | Recognized | Remarks |
|----------------------|------------------------|-------------|------------|-------------------------------|
| Basic Channel | | 1-16 | 1-16 | |
| MODE | | MODE3 | MODE3 | |
| Note Number | | 0-127 | 0-127 | |
| Velocity | Note On | 0 | 0 | |
| | Note Off | х | х | |
| Channel Key Pressure | | Х | Х | |
| Pitch Bend | | x | х | |
| Control Change | | х | х | |
| Program Change | LSB | 0, 64 (*3) | 0, 64 (*3) | |
| | MSB | 86 (*3) | 86 (*3) | |
| | PC | 0-127 (*3) | 0-127 (*3) | |
| System Exclusive | | х | х | |
| System Common | : Song Position | х | х | |
| | : Song Selec | х | х | |
| | : Tune Request | Х | Х | |
| System Real Time | :Clock | 0 | 0 | |
| | :Start | 0 | 0 | |
| | :Continue | x | 0 | |
| | :Stop | 0 | 0 | |
| AUX Message | :All Sound Off | х | 0 | |
| | :Reset All Controllers | х | 0 | |
| | :Local On/Off | x | х | |
| | : All Notes Off | х | 0 | |
| | : Omni Mode Off | х | 0 | Same process as All Notes Off |
| | : Omni Mode On | Х | 0 | Same process as All Notes Off |
| | : Mono Mode On | х | 0 | Same process as All Notes Off |
| | : Poly Mode On | х | х | |
| | : Active Sensing | 0 | 0 | |
| | : System Reset | Х | Х | |

Mode 1: Omni On, Poly Mode 2: Omni On, Mono o: Yes Mode 3: Omni Off, Poly Mode 4: Omni Off, Mono x: No

(*3) See Sound List

MIDI Implementation Chart (SYSTEM)

| Function | | Transmitted | Recognized | Remarks |
|------------------|------------------------|-------------|------------|---------------------------|
| Basic Channel | | 1-16, OFF | 1-16, OFF | |
| MODE | | MODE3 | MODE3 | |
| Note Number | | 0-127 | 0-127 | transfer to selected part |
| Velocity | Note On | 0 | 0 | transfer to selected part |
| | Note Off | Х | Х | transfer to selected part |
| After Touch | | Х | 0 | transfer to selected part |
| ControlChange | | Х | Х | |
| Program Change | LSB | 0 | 0 | |
| J J | MSB | 85 | 85 | |
| | PC | 0-127 | 0-127 | Pattern Change (*4) |
| System Exclusive | | Х | Х | |
| System Common | : Song Position | Х | Х | |
| · | : Song Selec | Х | х | |
| | : Tune Request | Х | х | |
| System Real Time | :Clock | 0 | 0 | |
| | :Start | 0 | 0 | |
| | :Continue | Х | 0 | Same process as Start. |
| | :Stop | 0 | 0 | |
| AUX Message | :All Sound Off | Х | х | |
| | :Reset All Controllers | Х | Х | |
| | :Local On/Off | Х | Х | |
| | : All Notes Off | Х | х | |
| | : Omni Mode Off | Х | х | |
| | : Omni Mode On | Х | х | |
| | : Mono Mode On | Х | Х | |
| | : Poly Mode On | Х | Х | |
| | : Active Sensing | 0 | 0 | |
| | : System Reset | Х | Х | |

Mode 1: Omni On, Poly Mode 2: Omni On, Mono o: Yes Mode 3: Omni Off, Poly Mode 4: Omni Off, Mono x: No

^(*4) Send and receive only on the PATTERN screen. The program change is (bank number of the pattern you want to load) x 8 + (pattern number) -1.

SH-4d

02

Owner's Manual

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