

÷ S the real SH-2 OPTION HELP (PLUG-OUT) SETTING ABOUT PATCH GET SEND GET GET MODULATOR VCO-1 VCO-2 AUDIO MIXER VCF VCA EFFECTS RANGE 32, ¹⁶, 8 DELAY WAVEFORM FREQ NANCE ENV MOD KYBD RATE VCO-1 VCO-2 ENV TRIC REVERB VCA MODE Ø 17 0 \bigcirc 0 Ø C ()ÌÌ Ξ BENDER <u>رو</u> PULSE RUTO BEND VCO-1 SUB s 1 **РАНОО** (в/н) — ги — ли Ī ARP STEP 1/8 1/16 1/4T 1/4 1/8T 1/14 1/16T BEND TEMPO Sync ARP TYPE H DOWN TOWN TOPD - UP 20CT ARPEGGIO PORTAMENTO O Ø ÷ \odot Roland Synthesizer SH-2 KEYBOARD 🔻

SH-2 PLUG-OUT Software Synthesizer

Owner's Manual

Introduction

You must specify the MIDI Input/Output in the Setting window (p. 10) for the first time.

For details on the settings for the DAW software that you're using, refer to the DAW's help or manuals.

In this document, SYSTEM-1/SYSTEM-1m are described as "SYSTEM-1."

About this product

- In the interest of product improvement, the specifications and/or contents of this package are subject to change without prior notice.
- The explanations in this manual include illustrations that depict what should typically be shown by the display. Note, however, that your unit may incorporate a newer, enhanced version of the system (e.g., includes newer sounds), so what you actually see in the display may not always match what appears in the manual.

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Screen Structure



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Main Window

MODULATOR

Here you can create cyclic change (modulation) in the sound by applying vibrato (pitch modulation) or wah (filter modulation).

	RANDOM (S/H) (Random wave)
	ПЦ (Square wave)
WAVE FORM	🖊 (Saw wave)
I ORM	\sim (Triangle wave)
	\sim (Sine wave)
RATE	Determines the speed of the
NAIE	modulation.
	Specifies the time from the
DELAY moment you play a note unt	
TIME	the LFO reaches its maximum
	amplitude.

VOLUME

Adjusts the overall volume of the SH-2.

PORTAMENTO TIME

Adjusts the time over which the pitch change occurs.

BEND RANGE

Specifies the amount of pitch change that occurs when pitch bend messages are received.

TEMPO SYNC

Press this to make it light if you want to synchronize to the tempo of your host application (DAW). Synchronization tempo range: 40–300

ARPEGGIO

Causes an arpeggio to be produced when you simply hold down a chord on the keyboard.

ARPEGGIO	If this is lit, an arpeggio plays.
ARP TYPE	Selects the arpeggio variation.
ARP STEP	Selects the speed of the arpeggio.

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	V	C

	VCO Here you can specify the character and the pitch of the sound.		DUILOF	When MOD is set to MAN, this adjusts the pulse width of the Square wave.	BENDER *1	Adjusts the amount of bend that is applied to VCO-1.
			WIDIH	When the setting is other than MAN, this adjusts the depth of the modulation	FINE TUNE *2	Adjusts the pitch of VCO-2.
	AUTO	Modulates the pitch (vibrato). Changes the pitch at the moment you play	produced by the LFO and envelope.		COARSE TUNE *2	Adjusts the pitch of VCO-2 in semitone steps.
		BEND a note.		width of the pulse wave. S.OSC: VCO-1 SUB		*1 VCO-1 only/ *2 VCO-2 only
	WAVE FORM	 ✓ (Saw wave) ✓ (Square wave) ✓ (Sine wave) *1 / NOISE *2 	MOD	A.ENV: VCA envelope F.ENV: VCF envelope AUTO BEND: AUTO BEND(VCO)		
	RANGE	Specifies the octave setting.		LFO: Modulator MAN: No modulation		

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Roland Synthesizer SH-2

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These settings determine the brightness and thickness of the sound. Here you can

MOD

KYBD

also specify the time-varying change (envelope) for the filter.

Specifies the cutoff

filter.

RESONANCE sound in the region of the

frequency of the low-pass

Resonance boosts the

filter's cutoff frequency.

Specifies the direction

envelope changes.

and amount by which the ADSR

C

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VCF

CUTOFF

FREQ

ENV

0

0

UDIO MI VCO-1 VC

CO-1 SUB

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AUDIO MIXER

Adjusts the volume of the VCO.		
VCO-1 SUB Volume of the sound one octave below.		
VCO-1 Volume of VCO-1.		
VCO-2 Volume of VCO-2.		

EFFECTS

Here you can adjust the effects.		
REVERB	Adjusts the depth of the reverb.	
DELAY Adjusts the volume of delay sound.		
TIME	Adjusts the delay time.	

ENV TRIG (Common for VCF and VCA)

Specifies what triggers the envelope.

(O)

DELAY

0 ٢

specifies what triggers the envelope.			
LFO +GATE	The envelope is triggered when you newly press a key. And if you hold down a key, the envelope is triggered repeatedly at each cycle of the modulator.		
	 * The envelope is not triggered when you play legato. 		
GATE +TRIG	The envelope is triggered each time you press a key.		
LFO	If you hold down a key, the envelope is triggered repeatedly at each cycle of the modulator.		
GATE	The envelope is triggered when you newly press a key. * The envelope is not triggered		
	when you play legato.		

VCA

Here you can create time-varying change (envelope) for the volume.

	HOLD: The note sounds at a fixed volume level.
	F.ENV: The note sounds according to the envelope specified by the VCF's A D S R settings.
VCA	A.ENV: The note sounds
MODE	according to the envelope
	specified by the VCA's A D S R
	settings.
	GATE: The sound has a fixed
	volume as long as you hold down
	the key.
CRUSHER	Modifies the tonal character by
CROSHER	distorting the waveform.
TONE	Adjusts the brightness of the
TONE	sound.
A D S R	Specifies the envelope.
	· · · · · · · · · · · · · · · · · · ·

Uses a modulator to vary

the cutoff frequency of

Allows the filter cutoff

according to the key that

Specifies the envelope.

the low pass filter.

frequency to vary

you play.

Memory and Bank

1. Click the [PATCH] button.

The Patch Select window opens.



Bank

A set of 64 memories is called a "bank." By switching banks you can access a large number of memories. A bank of memories can be saved as a file.



Changing to Other Bank

1. Click the Bank field.

The bank list window opens.

2. Click the bank that you want to recall.

By pressing the $[\blacktriangle][\nabla]$ buttons located at the right of the bank field, you can switch to the next or previous bank.

Exporting the Bank

Here's how to export a bank as a file.

1. Click the [EXPORT] button.

The file name input window opens.

 Enter a file name and save. The file is written.

Importing a Bank

- **1.** Click the [IMPORT] button. The file selection window opens.
- 2. Select a file and load it. The bank is loaded.

Creating/Deleting a Bank

Creating a bank

Click the [NEW] button to create a new empty bank.

Deleting a bank

Here's how to delete the selected bank.

- **1.** Select a bank as described in "Changing to Other Bank" (p. 5).
- **2.** Click the [DELETE] button. A confirmation screen appears.
- **3.** Click [OK] to delete the bank.

Renaming a Bank

- **1.** Select a bank as described in "Changing to Other Bank" (p. 5).
- 2. At the left of the bank field, click ►.
- **3.** Edit the name and press the [Return (Enter)] key.

Memory

The SH-2 manages 64 memories as one bank.

Loading a Memory

Here's how to load a memory from a bank. When you load a memory, its settings appear in the edit area and can be edited.

- 1. Click the number of the memory that you want to load.
- 2. Click the [LOAD] button. Or press the [Return (Enter)] key.
 - The memory is loaded.
 - * You can also load a memory by double-clicking a memory number.

Saving the Memory

Here's how to save an edited sound as a memory in the bank.

- 1. Click the number of the memory in which you want to save the sound.
- Click the [SAVE] button.
 The memory is saved in the bank.

Renaming the Memory

- 1. Click the number of the memory that you want to rename.
- **2.** Click the [RENAME] button.
- 3. Change the memory name. (Up to 16 letters)

Changing the Order of the Memories

Drag the memory number to change the order of memories.

Keyboard shortcuts

Keyboard shortcuts for the Patch Select window.

Кеу	Function
Command (Ctrl) + B	Changes bank
Command (Ctrl) + I	Imports bank
Command (Ctrl) + E	Exports bank
Command (Ctrl) + N	New memory
Command (Ctrl) + O	Loads memory
Command (Ctrl) + S	Saves memory
Up/Down/Left/Right	Selects memory
Space	Renames memory
Command (Ctrl) + C	Copies memory
Command (Ctrl) + V	Pastes memory
Delete *1	
delete ⊠*2	Deletes memory
fn + delete *2	
Return (Enter)	Loads memory
Command (Ctrl) + Z	Undo
Command (Ctrl) + Shift + Z	Redo
Command (Ctrl) + U	Sends all memories to the SYSTEM-1
Esc	Closes window

*1 Windows / *2 Mac

Playing with the SYSTEM-1

By connecting the SYSTEM-1 to your computer (Mac/Windows), you can use the SH-2 in conjunction with the SYSTEM-1.

Windows

The "SYSTEM-1 CTRL" shown as a MIDI port is the port used by the SH-2. Do not use this port from your DAW.

Plug-Out

What is a "Plug-out"?

"Plug-out" is technology that allows a software synthesizer such as SH-2 to be installed and used in the SYSTEM-1.

- You can play the SH-2 on the SYSTEM-1 by itself, without using a computer.
- You can send the setting of selected bank to the SYSTEM-1.
- You can use the knobs and sliders of the SYSTEM-1 to edit the sound.

Plug-Out Procedure

1. Click the [PLUG-OUT] button.

A confirmation message appears.

2. Click the [OK] button.

A progress bar appears, and plug-out processing begins. This takes approximately one minute.

* If another software synthesizer is already plugged-out on the SYSTEM-1, a confirmation message appears. Click the [OK] button to continue.

Send/Get Memories



- **1.** Connect the SYSTEM-1 to your computer.
- 2. Turn on the MODEL [PLUG-OUT] button of the SYSTEM-1.
 - * In order to send or get a memory, you must first plug-out (p. 8).

Sending the Memory

You can send the current SH-2 memory to the SYSTEM-1 and play it on the SYSTEM-1. The sound is output from the SYSTEM-1's OUTPUT jacks.

3. Click the [SEND] button of the SH-2.

The memory is transmitted.

Getting the Memory

If you've used the SYSTEM-1 to edit a memory of the plugged-out SH-2, here's how to load that memory into the SH-2.

3. Click the [GET] button of the SH-2. The memory is loaded.

If an error message appears, check the following items.

- Is the MIDI port specified correctly? (p. 10)
- Is the SYSTEM-1 connected to your computer?

If an error message appears, check the following items.

- Is the MIDI port specified correctly? (p. 10)
- Is the SYSTEM-1 connected to your computer?
- Is the SYSTEM-1's MODEL [PLUG-OUT] button turned on?
- Is the SH-2 plugged-out on the SYSTEM-1? (p. 8)

SH-2 Controller Map

SH-2 (Original hardware)



SYSTEM-1 (Hardware)



Controls	Lit	Unlit	Blink	Blink (Rapidly)
22	GATE	A.ENV	F.ENV	HOLD
23	GATE	LFO	GATE+TRIG	LFO + GATE

Settings

Option

1. Click the [OPTION] button.

√	SH-2 Layout
	SYSTEM-1 Layout
√	Zoom 100%
	Zoom 125%
	Zoom 150%
	Zoom 175%
	Zoom 200%
✓	Set MIDI Control Mapping for SYSTEM-1
	Roland Content Store
	Activation

2. Select items.

A \checkmark is shown for the selected item.

Item	Explanation		
	Changes the layout of	the controllers in the main window.	
SH-2 Layout	SH-2 Layout:	The controllers are laid out as they are on the SH-2 (original).	
SYSTEM-1 Layout	SYSTEM-1 Layout:	The controllers are laid out as they are on the SYSTEM-1.	
Zoom	Changes the size of the main window.		
Set MIDI Control Mapping for SYSTEM-1	Check this item if you want to use the SYSTEM-1 as a control surface for the SH-2.		
	Here you can make MIDI mapping settings for the buttons and sliders.		
Activation	Activate the SH-2.		

Setting

1. Click the [SETTING] button. The Setting window opens.

* Flip Scroll Direction is only on Mac.

Setting	
SYSTEM-1	
MIDI Input:	
SYSTEM-1 ‡	
MIDI Output:	
SYSTEM-1 ‡	
Scroll Direction	
Cancel OK	

2. Edit the parameters.

Parameter	Explanation
MIDI Input	Choose "SYSTEM-1" (Mac OS) or "SYSTEM-1 CTRL" (Windows).
MIDI Output	
Flip Scroll Direction	Inverts the direction of rotation when using the mouse wheel to edit a
(Only on Mac)	value.

3. Click the [OK] button.

- * Your changes are remembered.
- * If multiple instances of the SH-2 are running, these settings apply to all instances.

Setting for the SYSTEM-1

When you want to play the SH-2's sound (plug-in) with your SYSTEM-1, set the SYSTEM-1 to the MIDI controller mode.

Once you set to MIDI controller mode, SYSTEM-1's internal sound can not be played, and the SYSTEM-1 can play the SH-2's sound only.

- * These settings are not available in SYSTEM-1m.
- **1.** Turn the power on of the SYSTEM-1.
- 2. While holding down the MODEL [SYSTEM-1] and [PLUG-OUT] buttons, use the SCATTER [TYPE] dial to set to MIDI controller mode.



Setting	Explanation
	Choose this if you're using the SYSTEM-1 as a MIDI controller.
MIDI Controller Mode	 Playing the keyboard will not produce the SYSTEM-1's internal sound.
	* The SYSTEM-1's internal sound is not produced even if the SYSTEM-1 receives MIDI.
Local Control ON	Choose this when using the SYSTEM-1 on its own. (Default setting)
	Choose this when using the SYSTEM-1 in conjunction with your DAW.
Local Control OFF	* If the SYSTEM-1 is used by itself with this setting, playing the keyboard will not produce sound.