Panel Descriptions

Top Panel



Switches the synchronization signal setting (SYNC 24, SYNC 48) of the DIN SYNC connectors (IN, OUT 1, OUT 2).

2 CV/GATE OUT

Connect an analog synthesizer to these jacks.			
Jack/Controller	Explanation		
CV jack	Controls the pitch. Outputs 0-+5 V. If the [TRANSPOSE] switch is set to L (Low), this outputs -1-+4 V. This jack supports OCT/V (it does not support Hz/V).		
[TRANSPOSE] switch	Switches the pitch range of the MIDI notes that are input. Relative to M (Mid), you can specify ±2 octaves L (Low) or H (High).		
GATE jack	Controls note-on/off. Outputs +5 V when using USB bus power, or +9 V when using the AC adaptor.		
[POLARITY] switch	Switches the polarity of the voltage (
BEND jack	Outputs ±1 V.		
[WHOLE/OCT/LFO] switch	Selects the setting of the BEND jack. WHOLE: Sets the variable range of the pitch bend to ± 1 whole tone. OCT: Sets the variable range of the pitch bend to ± 1 octave. LFO: Outputs an LFO in a maximum range of ± 1 V.		
AUX jack	Outputs the CV (control voltage: 0—+5 V) specified by the AUX (1–3) parameters. The AUX (1–3) parameters can be adjusted individually.		
[1/2/3] switch	Choose the setting of the AUX jack from AUX 1–3.		

3 CLOCK SOURCE

Here you can switch the clock source.

Controller	Explanation		
CLOCK SOURCE indicator	Indicates the currently selected clock source (D-SYNC, MIDI, USB, INT (INTERNAL)). This blinks in synchronization with the clock interval (quarter note timing).		
[CLOCK SOURCE] button	The master clock source is switched each time you press the button.		

A TEMPO/SYNC

Here you can change the tempo and make synchronization settings.			
Controller	Explanation		
Display	When the CLOCK SOURCE is INT (INTERNAL), this indicates the tempo. If something other than INT (INTERNAL) is selected, this shows " ". When you're editing settings, this shows the parameter name or value.		
[TEMPO] knob	Adjusts the tempo $(20.0-300.0)$.		
[FINE] knob	Use the [FINE] knob to adjust the tempo value below the decimal point.		
[SYNC] button	Press the [SYNC] button if synchronization has been lost. Synchronized playback will stop while you hold down the button, and will resume on the next beat when you release it.		
[SHUFFLE] button	Specifies shuffle. The indicator blinks while this is specified. To adjust the amount of shuffle, press the [SHUFFLE] button and then turn the [TEMPO] knob (-5D-D-5D). The setting is finalized when you press the [SHUFFLE] button once again. The indicator is lit if the value is other than D. * Shuffle will not be on if the value is D.		
[TAP] button	button If the CLOCK SOURCE is INT (INTERNAL), you can specify the tempo by pressing [TAP] button at the desired interval (tap tempo).		

5 PLAY/STOP

Starts/stops synchronized playback (when CLOCK SOURCE is INT (INTERNAL))

Controller	Explanation		
[■] button	Stops synchronized playback.		
[►/II] button	When you press the [►/II] button, the indicator lights and synchronized playback begins. When you press the [►/II] button again, the indicator blinks and synchronized playback stops. When you press the [►/II] button once again, the indicator lights and synchronized playback resumes from the location at which it stopped.		

Rear Panel



A Turning the power on ([POWER] switch)

Controller	Explanation
[POWER] switch	This turns the power on/off.
* After you have mad	le the correct connections he sure to turn on the master device first, and then the sla

- If you turn on the power in the incorrect order, you risk malfunctions or damage to your equipment. When
- turning the power off, first turn off the slave devices (or amp) and then turn off the master device. * This unit is equipped with a protection circuit. A brief interval (a few seconds) after turning the unit on is
- required before it will operate normally. With the factory settings, the unit's power will automatically be switched off 240 minutes after you stop playing or operating the unit.

If you don't want the power to turn off automatically, change the "A - a F (Auto Off)" setting to "a F F (Off)' as described on "Editing the Parameters"

NOTE

- Any settings that you are in the process of editing will be lost when the power is turned off. If you have any settings that you want to keep, you should save them beforehand.
- · To restore power, turn the power on again.

Jack	Explanation			
DC IN jack	Connect the included AC adaptor here. Use only the included AC adaptor.			
USB (⊷-)port	Use a commercially available USB cable to connect this port to your computer. This lets you transfer USB MIDI data. It is normally unnecessary to install a driver. If you are connecting multiple units to your computer, you will need to set the USB Driver Mode (USB, d) to Advance (Adu) and install the USB driver. Download the USB driver from the Roland website. For details, refer to Readme.htm which is included in the download. → http://www.roland.com/support/ When connected via USB, signals from the DIN SYNC IN connector and the MIDI IN connector are sent to the computer. → "Signal Flow When a Computer is Connected".			

MIDI connectors

Connect MIDI devices to these connectors.			
Connector	Explanation		
MIDI IN connector	Sends signals to the DIN SYNC OUT 1/2 jacks, CV/GATE jacks, BEND jack, AUX jack, and MIDI OUT 1/2 connectors. When connected via USB, performance data from the MIDI IN connector is output via USB.		
MIDI OUT 1 connector	CLOCK and START/STOP follow the CLOCK SOURCE setting of the SBX-1. Transmits the performance data received via USB and the MIDI IN connector.		
MIDI OUT 2 connector	CLOCK and START/STOP follow the CLOCK SOURCE setting of the SBX-1. Only the CLOCK and START/STOP are transmitted from USB. Performance data from the MIDI IN connector is always transmitted.		

DIN SYNC iacks

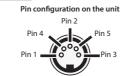
Connect a device that supports DIN SYNC to these jacks.

Jack	Explanation
DINI CVNC IN :I-	This jack receives Start, Stop, Clock, and Continue Start according to the setting
DIN SYNC IN jack	of the DIN SYNC switch.
DIN SYNC OUT 1 jack	These jacks transmit Start, Stop, Clock, and Continue Start according to the
DIN SYNC OUT 2 jack	setting of the DIN SYNC switch.

About the signals of the DIN SYNC jacks

These will not work unless you use MIDI cables that support DIN SYNC.

Pin	Explanation			
Pin 1	Start/Stop			
Pin 2	GND			
Pin 3	Clock			
Pin 4	none			
Pin 5 (*)	Continue Start			



* The operation of Continue Start will differ depending on the device that is connected. Refer to the owner's manual of the device that is connected.

⑤ Security slot (ඣ)

→ http://www.kensington.com/

Various Settings

Editing the Parameters

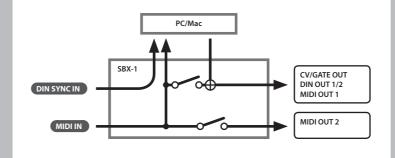
- Here's how to make settings for the SBX-1.
- 1. Hold down the [■] button and press the [CLOCK SOURCE] button
 - The D-SYNC indicator and the MIDI indicator light, and the display indicates the parameter name.
- 2. Use the [TEMPO] knob to select a parameter.
- 3. Press the [CLOCK SOURCE] button; the value of the selected parameter is shown.
- 4. Use the [TEMPO] knob to edit the value.
- 5. Press the [CLOCK SOURCE] button to return to the parameter selection state.
- 6. Press the [■] button to return to normal operation.
- * If you want to save the settings, long-press the [CLOCK SOURCE] button until the display indicates "5RuE."

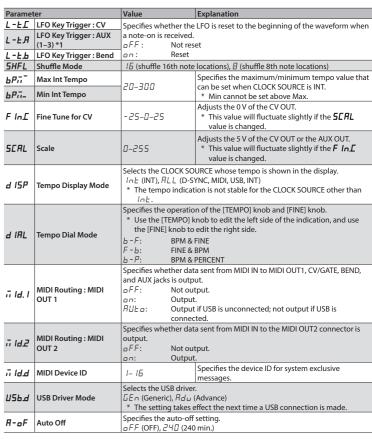
The settings are also saved when you use the [POWER] switch to turn off the power. The settings are not saved if you turn off the power by disconnecting the AC adaptor or the USB

Cable				
Paramet	ter	Value	Explanation	
CH .C	MIDI Ch: CV/GATE		Specifies the MIDI channel that will control the	
		off, I- 15,	output signals of the CV/GATE jacks. Specifies the MIDI channel that will control the	
[н Я	MIDI Ch: AUX (1-3) *1	ain / (omni)	output signal of the AUX jack (1–3).	
Сн .ь	MIDI Ch: Bend		Specifies the MIDI channel that will control the output signal of the BEND jack.	
OULI	Output Mode: CV/GATE	CuGŁ,ŁrG	Selects the function of the CV jack and GATE jack. ピロル: The jacks operate as CV/GATE jacks. 上 ー	
оИЕЯ	Output Mode: AUX (1–3) *1	Specifies the message that is output from the AUX jack (1–3). Lr [[Grigger], u E [[Velocity]], RF [[LFO]], LF [[L		
bnds	Bend Range for CV	oFF, 1-24	Specifies the pitch bend range that is mixed into the output signal from the CV jack. * When aULL is set to Lulb	
		oFF,	Specifies the speed at which to interpolate between	
bnd.5	Bend Mode for CV	FR5E (FAST), 7. 1d (MID), 5L a L' (SLOW)	the received pitch bend messages. * When aULL is set to [u[L]	
PrŁ.5	Portamento SW for CV	Specifies the portamento on/off setting for the CV jack. aFF: OFF an: Portamento is always on. LEUE: Portamento is applied when you play legato. * When aUE. is set to LuuE		
PrEE	Portamento Time for CV	0- 127	Specifies the portamento time for the CV jack. * When aULL is set to [u[L]	
Ern5	Transpose	- 12- 12	Specifies the reference note when the [TRANSPOSE] switch is set to "M" (Mid).	
FLQT	Trigger Note: CV	bd (36), $5d$ (38), LE (43), πE (47), HE (50), $r S$ (37), HE (39), EH (42), eH (46), EE (49), $r E$ (51) * The value in parentheses indicates the note number. $32n$, $32nF$ (Thirty-second note), $16E$, $16EF$ (Sixteenth-note triplet),		
ŁrG.G	Trigger Note: GATE	15n, 15nF (Sixteenth note), 8E, 8EF (Eighth-note triplet), 8n, 8nF (Eighth note), 4E, 4EF (Quarter-note triplet), d8n, d8nF (Dotted eighth note), 4n, 4nF (Quarter note) * When DVL or aVL f is set to Er G * When DVL or aVL f is set to Er G		
ErG.A	Trigger Note: AUX (1–3) *1	* Valid notes are created from the clock specified by CLOCK SOURCE. * If the indication has no "F" following the note, the trigger is output only between START and STOP. * If the indication has an "F" following the note, the trigger is output at all times.		
LFoI	LFO Waveform: CV	Specifies the LFO waveform. Lr ! (TRI), 5#!! (SAW), 59 5-59 ! (SQUARE 50%-10%), 5#PL (Sample		
LFoA	LFO Waveform: AUX (1–3) *1	and Hold), 5 ii P2 (CV only) * When a U.E. L. or a U.E. A is set to L. F.a		
LFo.b	LFO Waveform: Bend	Specifies the LFO waveform. $Er\ I$ (TRI), $5R'$! (SAW), $5R\ 5-5R\ I$ (SQUARE 50%–10%), $5\vec{n}PL$ (Sample and Hold) * When the [BEND] switch is set to LFO		
L-LL	LFO Control: CV	Select the parameter that is output from each jack.		
L-EA	LFO Control: AUX		nd), ωEL (Velocity), RFE (After Touch), EL . $I-EL.3$ I ,	
	(1-3) *1	EE.64-EE.95 (CC#1		
L-[.b	LFO Control: Bend	* If this is OFF, LFO is	s aiways output.	
L-d.C	LFO Depth: CV LFO Depth: AUX	-		
L-dЯ	(1–3) *1	- 100-0- 100	Specify the LFO Depth that is output from each jack.	
L-db	LFO Depth: Bend			
L-r.I	LFO Rate: CV		(speed) that is output from each jack.	
L-rA	LFO Rate: AUX (1-3) *1		(Sixteenth-note triplet), IEn (Sixteenth note),	
L-r.b	LFO Rate: Bend	BE (Eighth-note triplet), B_n (Eighth note), $4E$ (Quarter-note triplet), $4n$ (Quarter note), $4n - 2$ (Quarter note x 2), $4n - 4$ (Quarter note x 4), $4n - 8$		

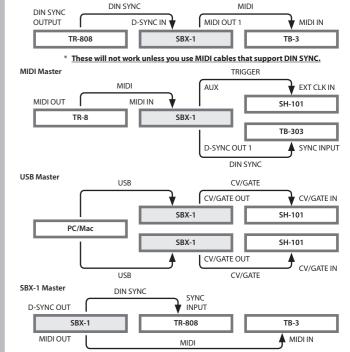
Signal Flow When a Computer Is Connected

(Quarter note x 8)





*1 To edit each of the AUX jack settings (1–3), set the [1/2/3] switch appropriately before editing the value.



Connection Example

 $^{\ast}\,$ To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections

Restoring the Factory Settings (Factory Reset)

ere's how to return the SBX-1 to its factory-set state.

- 1. While holding down the [SHUFFLE] button, turn on the power The display indicates "r 5 ½" and the [►/II] button blinks. If you decide to cancel the factory reset, turn off the power.
- 2. Press the [>/II] button to execute the factory reset.
- 3. When the display indicates "[[]iiP," turn the power of the SBX-1 off and then on again.

Main Specifications Roland SBX-1: SYNC BOX Power Supply AC adaptor, or obtained via USB port (USB bus power) 150 mA (When using an AC adaptor) 200 mA (When using USB bus power) **Dimensions** 220 (W) x 135 (D) x 52 (H) mm 790 g 1 lb 12 oz Accessories Owner's Manual, AC adaptor, Leaflet "USING THE UNIT SAFELY" Options (sold USB cable

* In the interest of product improvement, the specifications and/or appearance of this unit are subject to