

**Vienna Instruments**  
**Solo Download Instruments**  
**Bass Saxophone**  
**Full Library**

# Contents

<b>Introduction</b>	<b>3</b>
<b>'Full' Library</b>	<b>3</b>
Data paths and Patch name conventions	3
<b>Patch information</b>	<b>3</b>
Interval performances	4
<b>Matrix information</b>	<b>4</b>
<b>Preset information</b>	<b>5</b>
<b>Abbreviations</b>	<b>5</b>
<b>Articulations</b>	<b>6</b>
<b>The orchestra</b>	<b>7</b>
<b>Pitch</b>	<b>7</b>
<b>74 Bass Sax</b>	<b>8</b>
<b>Patches</b>	<b>8</b>
01 SHORT + LONG NOTES	8
02 DYNAMICS	9
03 FLATTER + TRILLS	10
10 PERF INTERVAL	11
11 PERF INTERVAL FAST	11
12 PERF TRILL	12
13 PERF REPETITION	12
98 RESOURCES	16
01 Perf Rep dyn	16
02 Long Notes - Single Layer	16
03 Perf Speed variation	17
99 RELEASE	17
<b>Matrices</b>	<b>18</b>
Matrix - LEVEL 1	18
Matrix - LEVEL 2 A - Advanced	18
Matrix - LEVEL 2 B - Standard	19
Matrix - LEVEL 2 C - Repetitions	21
Matrix - LEVEL 2 D - Scale+Phrase	21
Matrix - LEVEL 2 E - Keyswitch Vel	22
<b>Presets</b>	<b>24</b>

## Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Solo Download Instruments! This document contains the mapping information for the "Full" version of the Vienna Instruments Bass Saxophone. You will find in it a comprehensive survey of the articulations/Patches content, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

## "Full" Library

As opposed to the "Standard" versions of our Solo Download Instruments, the "Full" versions are identical with the corresponding instruments of a DVD Collection, i.e., they contain exactly the same samples, Patches, Matrices and Presets as the latter without any restrictions.

Installing a Download Instrument's Full version copies that instrument's sample content to a separate folder on your hard disk, so that it is not necessary to keep its Standard version installed – you may either delete it from your hard disk or at least remove it from the Directory Manager's list of activated instruments. In the Vienna Instruments Browser, the path of the Full version will be the same as that of the corresponding DVD Instrument, so that you can still see both versions as separate entries if you keep the Standard version installed.

## Data paths and Patch name conventions

Since the Full versions of Download Instruments conform to the corresponding DVD Instruments, the data paths in your Vienna Instruments browser will be different than those of Standard Download or Special Edition Instruments. For instance, the path of the Standard Download Library of Flute 1 is "02D Flute-1", and all Patches can be found in this folder regardless of the articulation group they belong to. The Patch number is also marked with a "D" so that you immediately know it is a Download Instrument. In the Vienna Special Edition, Flute 1 is located in the folder "11 Flutes" together with the other flutes. Here, the Patch number is marked with an "S". The Full Download of Flute 1 is located in the subfolder "32 Flute" of the section "Woodwind Patches", which again contains subfolders grouping the Patches according to type, e.g., "01 SHORT + LONG NOTES", "02 DYNAMICS", etc. Patch names of the Full Download Library may differ from the corresponding ones of the Standard Download Library.

While Full Download Instruments contain all articulations of the corresponding DVD Instruments, their Patches are not divided into Standard and Extended content. The list of articulations further down which gives a summary of the Library's contents.

Special Patch configurations which sometimes are part of a Standard Download Instrument may be found in a reserved folder called "98 RESOURCES" in the Full Instrument. E.g., Flute 1 Standard contains the Patch "22D FL1 legato-sus"; in Flute 1 Full, this Patch is called "01 FL1\_perf\_leg\_sustain" and is located in the Resources' subfolder "03 Perf Speed variation". (Apart from that, it also contains more samples.) Other articulations that can be found in the Resources folder are isolated dynamics repetitions in the subfolder "01 Perf Rep dyn" – e.g., the five repetitions of a legato crescendo, divided into separate Patches – and extracted velocity layers of sustained notes in the subfolder "02 Long Notes – Single Layer".

## Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary.

Where the type of articulation requires a special mapping (e.g., natural harmonics patches), the mapping layout will be shown in a detailed graphic.

**Major and minor runs** are always mapped to the keys of their scale, as are **arpeggios** to the keys of the broken chord played. **Grace notes** and **mordents** are mapped to their target note, i.e., the note the articulation ends with. Due to their nature, all **upward and downward articulations** (e.g., fixed glissandos and octave runs) have different mapping ranges – the upward movements ending the involved interval below the Patch's upper mapping range, while downward movements end the interval above its lower mapping range. (Please note that not all of the articulations mentioned above may be contained in your Collection.)

The Patch information also lists a Patch's velocity layers in detail. Velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements:

Layers	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6
2	1–88	89–127				
3	1–55	56–88	89–127			
4	1–55	56–88	89–108	109–127		
5	1–24	25–55	56–88	89–108	109–127	
6	1–24	25–55	56–88	89–108	109–118	119–127

## Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is not only used for legato but also for other articulations like the strings' portamento, marcato, or détaché and spiccato articulations.

Interval performances also contain at least two legato repetitions for every note which alternate automatically whenever you strike a key more than once. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But of course, it's mingling legato with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM.

*Note:* the Vienna Instruments PRO player software also allows you to play polyphonic Interval performances.

Another variety of interval performance you will come across is the "perf-leg\_sus" Patch. These Patches also contain normal legatos, only the target note of each interval is crossfaded into a looped sustain. They can be used for slower pieces with long notes; however, you should use them with circumspection, since plain legatos sound more lively because they not only render the interval transitions as they were played, but also have different target samples for every interval instead of the same sustained note: When you play, e.g., c–e and then c#–e with normal legato, you will get two different "e" tones; with sus-legato you won't.

## Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

**A/B switching** normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. However, some bass instruments go below that range so that the A/B keys have to be adapted accordingly. For example, the A/B switches for double bass are A0 and A#0 because the instrument's lower range extends to B0.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

**Speed controller switches** naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller's settings at the **Control edit** page, and save the result in your Custom Matrix folder.

## Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes (VI: 101–112; VI PRO: 1–127) instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes. Vienna Instruments PRO also allows you to define a MIDI Control for Preset keyswitching.

## Abbreviations

Here's a list of abbreviations in Patch names, which will help you to determine a Patch's content even without the help of the Vienna Instruments browser. Please note that not all of the abbreviations may occur in the manual on hand.

Abbreviation	Meaning	Abbreviation	Meaning
150, 160, ...	150, 160, ... BPM (beats per minute)	lo	long
1s, 2s, ...	tone length 1 sec., 2 sec., ...	marc	marcato
acc	accelerando	me	medium
all	combination of all Patches of a category	mi	minor
cre	crescendo	noVib	without vibrato
dim	diminuendo	perf-rep	repetition performance
dyn	dynamics (crescendo and diminuendo)	por	portato
dyn5, dyn9	dynamics, 5/9 repetitions	run	octave run
fa	fast	sl	slow
fast-rep	fast repetitions	sta, stac	staccato
flutter	flutter tonguing	str	strong
fx	effect sound	sus	sustained
gliss	glissando	Vib	with (medium) vibrato
leg	legato	Vib-progr	progressive vibrato
		XF	cell crossfade Matrix

## Articulations

<b>74 Bass Sax</b>	
<b>01 SHORT + LONG NOTES</b>	Staccato Portato short and medium Slap Sustained with vibrato Short and long bends
<b>02 DYNAMICS</b>	Medium dynamics with vibrato, 4 and 5 sec. Strong dynamics with vibrato, 3/4/5 sec. Medium dynamics without vibrato, 1.5/2/3 sec. Crescendo-diminuendo with vibrato, 3 and 5 sec. Fortepiano and sforzato, with and without vibrato
<b>03 FLATTER + TRILLS</b>	Flutter tonguing, crescendo Trills normal and accelerando, minor and major 2nd Dynamics for all trills
<b>10 PERF INTERVAL</b>	Legato with vibrato Grace notes, minor 2nd to octave Glissandos, up, minor 2nd to octave Marcato
<b>11 PERF INTERVAL FAST</b>	Legato Marcato
<b>12 PERF TRILL</b>	Trills, legato, minor to major 2nd
<b>13 PERF REPETITION</b>	Legato Portato Staccato Dynamics for all repetitions
<b>14 GRACE NOTES</b>	Grace notes Minor 2nd to octave Up and down
<b>15 SCALE RUNS</b>	Octave runs Legato, chromatic and whole tone Up and down
<b>16 BENDS DOWN</b>	Sustained with normal and progressive vibrato Sustained, "dirty" Legato with vibrato, grace notes, portamento, glissando up, marcato interval performances Performance trills

## The orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.



- |                           |                                 |
|---------------------------|---------------------------------|
| 1 1st and 2nd violin      | 9 Bassoon, contrabassoon        |
| 2 Viola                   | 10/11 Trumpet                   |
| 3 Cello                   | 12/13 Horn                      |
| 4 Double bass             | 14/15 Trombone                  |
| 5 Harp                    | 16 Tuba                         |
| 6 Concert flute, piccolo  | 17 Timpani                      |
| 7 Oboe, English horn      | 18 Drums, cymbals               |
| 8 Clarinet, bass clarinet | 19 other percussion instruments |


## Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

# 74 Bass Sax

## Patches

01 SHORT + LONG NOTES		Range: G1–C#4		
<b>01 SX-Bs_staccato</b>			<b>Samples: 180</b>	<b>RAM: 11 MB</b>
Staccato 3 velocity layers 4 Alternations				
<b>02 SX-Bs_portato_short</b>			<b>Samples: 180</b>	<b>RAM: 11 MB</b>
Portato, short 3 velocity layers 4 Alternations				
<b>03 SX-Bs_portato_medium</b>			<b>Samples: 180</b>	<b>RAM: 11 MB</b>
Portato, medium 3 velocity layers 4 Alternations				
<b>04 SX-Bs_slap</b>		Range: G1–C#3	<b>Samples: 68</b>	<b>RAM: 4 MB</b>
Slap 2 velocity layers 2 Alternations				
<b>11 SX-Bs_sus_Vib</b>		Range: G1–C4	<b>Samples: 90</b>	<b>RAM: 5 MB</b>
Sustained, with vibrato 3 velocity layers Release samples				
<b>21 SX-Bs_bend</b>			<b>Samples: 60</b>	<b>RAM: 3 MB</b>
Short and long downward bends The longer bends have a glissando-like quality 2 velocity layers AB switch: bend short/long				



**02 DYNAMICS****Range: G1–C4**

<b>01 SX-Bs_dyn-me_Vib_4s</b> Medium crescendo and diminuendo with vibrato, 4 sec. 2 velocity layers AB switch: crescendo/diminuendo	<b>Samples: 60</b>	<b>RAM: 3 MB</b>
<b>02 SX-Bs_dyn-me_Vib_5s</b> Medium crescendo and diminuendo with vibrato, 5 sec. 2 velocity layers AB switch: crescendo/diminuendo	<b>Samples: 60</b>	<b>RAM: 3 MB</b>
<b>11 SX-Bs_dyn-str_Vib_3s</b> Strong crescendo and diminuendo with vibrato, 3 sec. 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 30</b>	<b>RAM: 1 MB</b>
<b>12 SX-Bs_dyn-str_Vib_4s</b> Strong crescendo and diminuendo with vibrato, 4 sec. 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 30</b>	<b>RAM: 1 MB</b>
<b>13 SX-Bs_dyn-str_Vib_5s</b> Strong crescendo and diminuendo with vibrato, 5 sec. 1 velocity layer AB switch: crescendo/diminuendo	<b>Samples: 30</b>	<b>RAM: 1 MB</b>
<b>21 SX-Bs_dyn-me_noVib_1'5s</b> Medium crescendo and diminuendo without vibrato, 1.5 sec. 2 velocity layers AB switch: crescendo/diminuendo	<b>Samples: 60</b>	<b>RAM: 3 MB</b>
<b>22 SX-Bs_dyn-me_noVib_2s</b> Medium crescendo and diminuendo without vibrato, 2 sec. 2 velocity layers AB switch: crescendo/diminuendo	<b>Samples: 60</b>	<b>RAM: 3 MB</b>
<b>23 SX-Bs_dyn-me_noVib_3s</b> Medium crescendo and diminuendo without vibrato, 3 sec. 2 velocity layers AB switch: crescendo/diminuendo	<b>Samples: 60</b>	<b>RAM: 3 MB</b>
<b>31 SX-Bs_pfp_Vib_3s</b> Crescendo-diminuendo with vibrato, 3 sec. 2 velocity layers	<b>Samples: 30</b>	<b>RAM: 1 MB</b>
<b>32 SX-Bs_pfp_Vib_5s</b> Crescendo-diminuendo with vibrato, 5 sec. 2 velocity layers	<b>Samples: 30</b>	<b>RAM: 1 MB</b>

<b>41 SX-Bs_fp_Vib</b> Fortepiano, with vibrato 1 velocity layer	<b>Samples: 15</b>	<b>RAM: 1 MB</b>
<b>42 SX-Bs_sfz_Vib</b> Sforzato, with vibrato 1 velocity layer	<b>Samples: 15</b>	<b>RAM: 1 MB</b>
<b>51 SX-Bs_fp_noVib</b> Fortepiano, without vibrato 1 velocity layer	<b>Samples: 15</b>	<b>RAM: 1 MB</b>
<b>52 SX-Bs_sfz_noVib</b> Sforzato, without vibrato 1 velocity layer	<b>Samples: 15</b>	<b>RAM: 1 MB</b>

**03 FLATTER + TRILLS****Range: G1–A#3**

<b>01 SX-Bs_flutter_cre</b> Flutter tonguing, crescendo 1 velocity layer	<b>Range: G1–C4</b>	<b>Samples: 29</b>	<b>RAM: 1 MB</b>
<b>11 SX-Bs_trill_1</b> Trills, minor 2nd 2 velocity layers Release samples		<b>Samples: 56</b>	<b>RAM: 3 MB</b>
<b>12 SX-Bs_trill_2</b> Trills, major 2nd 2 velocity layers Release samples		<b>Samples: 56</b>	<b>RAM: 3 MB</b>
<b>13 SX-Bs_trill_1_dyn</b> Trills, crescendo and diminuendo, minor 2nd 1 velocity layer AB switch: crescendo/diminuendo		<b>Samples: 28</b>	<b>RAM: 1 MB</b>
<b>14 SX-Bs_trill_2_dyn</b> Trills, crescendo and diminuendo, major 2nd 1 velocity layer AB switch: crescendo/diminuendo		<b>Samples: 28</b>	<b>RAM: 1 MB</b>
<b>15 SX-Bs_trill_1_acc</b> Trills accelerando, minor 2nd 2 velocity layers Release samples		<b>Samples: 56</b>	<b>RAM: 3 MB</b>
<b>16 SX-Bs_trill_2_acc</b> Trills accelerando, major 2nd 2 velocity layers Release samples		<b>Samples: 58</b>	<b>RAM: 3 MB</b>

<b>17 SX-Bs_trill_1_acc-dyn</b>	<b>Samples: 28</b>	<b>RAM: 1 MB</b>
Trills accelerando, crescendo and diminuendo, minor 2nd		
1 velocity layer		
AB switch: crescendo/diminuendo		
<b>18 SX-Bs_trill_2_acc-dyn</b>	<b>Samples: 28</b>	<b>RAM: 1 MB</b>
Trills accelerando, crescendo and diminuendo, major 2nd		
1 velocity layer		
AB switch: crescendo/diminuendo		

**10 PERF INTERVAL****Range: G1–C4**

<b>01 SX-Bs_perf-legato_Vib</b>	<b>Samples: 349</b>	<b>RAM: 21 MB</b>
Legato, with vibrato		
Monophonic		
1 velocity layer		
Release samples		
<b>02 SX-Bs_perf-legato_grace</b>	<b>Samples: 698</b>	<b>RAM: 43 MB</b>
Grace notes, legato, minor 2nd to octave		
Monophonic		
2 velocity layers		
Release samples		
<b>03 SX-Bs_perf-legato_gliss-up</b>	<b>Samples: 278</b>	<b>RAM: 17 MB</b>
Glissandos, upward, minor 2nd to octave		
Monophonic		
1 velocity layer		
Release samples		
<b>04 SX-Bs_perf-marcato</b>	<b>Samples: 349</b>	<b>RAM: 21 MB</b>
Marcato		
Monophonic		
1 velocity layer		
Release samples		

**11 PERF INTERVAL FAST****Range: G1–C4**

<b>01 SX-Bs_perf-legato_fa</b>	<b>Samples: 754</b>	<b>RAM: 47 MB</b>
Interval performances: Legato, fast		
Monophonic		
2 velocity layers		
Release samples		
<b>02 SX-Bs_perf-marcato_fa</b>	<b>Samples: 506</b>	<b>RAM: 31 MB</b>
Interval performances: Marcato, fast		
Monophonic		
1 velocity layer		
Release samples		

**12 PERF TRILL****Range: G1–C4****01 SX-Bs\_perf-trill****Samples: 1198   RAM: 74 MB**

Performance trills, legato, minor to major 2nd  
 Monophonic  
 2 velocity layers  
 Release samples

**13 PERF REPETITION****Range: G1–C4****01 SX-Bs\_perf-rep\_leg****Samples: 150   RAM: 9 MB**

Repetition performances: Legato  
 2 velocity layers

**02 SX-Bs\_perf-rep\_por****Samples: 270   RAM: 16 MB**

Repetition performances: Portato  
 2 velocity layers

**03 SX-Bs\_perf-rep\_sta****Samples: 270   RAM: 16 MB**

Repetition performances: Staccato  
 2 velocity layers

**21 SX-Bs\_perf-rep\_dyn5\_leg****Samples: 150   RAM: 9 MB**

Repetition performances: Legato dynamics, 5 repetitions  
 1 velocity layer  
 AB switch: crescendo/diminuendo

**22 SX-Bs\_perf-rep\_dyn9\_por****Samples: 270   RAM: 16 MB**

Repetition performances: Portato dynamics, 9 repetitions  
 1 velocity layer  
 AB switch: crescendo/diminuendo

**23 SX-Bs\_perf-rep\_dyn9\_sta****Samples: 270   RAM: 16 MB**

Repetition performances: Staccato dynamics, 9 repetitions  
 1 velocity layer  
 AB switch: crescendo/diminuendo



## 14 GRACE NOTES

The samples are mapped to their target notes.

<b>01 SX-Bs_grace-1</b> Grace notes, minor 2nd 2 velocity layers Release samples AB switch: up/down	<b>Range: G1–B3</b>	<b>Samples: 86</b>	<b>RAM: 5 MB</b>
<b>02 SX-Bs_grace-2</b> Grace notes, major 2nd 2 velocity layers Release samples AB switch: up/down	<b>Range: G1–C4</b>	<b>Samples: 86</b>	<b>RAM: 5 MB</b>
<b>03 SX-Bs_grace-3</b> Grace notes, minor 3rd 2 velocity layers Release samples AB switch: up/down	<b>Range: G1–B3</b>	<b>Samples: 82</b>	<b>RAM: 5 MB</b>
<b>04 SX-Bs_grace-4</b> Grace notes, major 3rd 2 velocity layers Release samples AB switch: up/down	<b>Range: G1–C4</b>	<b>Samples: 82</b>	<b>RAM: 5 MB</b>
<b>05 SX-Bs_grace-5</b> Grace notes, 4th 2 velocity layers Release samples AB switch: up/down	<b>Range: G1–B3</b>	<b>Samples: 78</b>	<b>RAM: 4 MB</b>
<b>06 SX-Bs_grace-6</b> Grace notes, diminished 5th 2 velocity layers Release samples AB switch: up/down	<b>Range: G1–C4</b>	<b>Samples: 78</b>	<b>RAM: 4 MB</b>
<b>07 SX-Bs_grace-7</b> Grace notes, 5th 2 velocity layers Release samples AB switch: up/down	<b>Range: G1–B3</b>	<b>Samples: 74</b>	<b>RAM: 4 MB</b>
<b>08 SX-Bs_grace-8</b> Grace notes, minor 6th 2 velocity layers Release samples AB switch: up/down	<b>Range: G1–C4</b>	<b>Samples: 74</b>	<b>RAM: 4 MB</b>

<b>09 SX-Bs_grace-9</b> Grace notes, major 6th 2 velocity layers Release samples AB switch: up/down	<b>Range: G1–B3</b>	<b>Samples: 70</b>	<b>RAM: 4 MB</b>
<b>10 SX-Bs_grace-10</b> Grace notes, minor 7th 2 velocity layers Release samples AB switch: up/down	<b>Range: G1–C4</b>	<b>Samples: 70</b>	<b>RAM: 4 MB</b>
<b>11 SX-Bs_grace-11</b> Grace notes, major 7th 2 velocity layers Release samples AB switch: up/down	<b>Range: G1–B3</b>	<b>Samples: 66</b>	<b>RAM: 4 MB</b>
<b>12 SX-Bs_grace-12</b> Grace notes, octave 2 velocity layers Release samples AB switch: up/down	<b>Range: G1–C4</b>	<b>Samples: 66</b>	<b>RAM: 4 MB</b>
<hr/>			
<b>15 SCALE RUNS</b>	<b>Range: G1–C4</b>		
<b>01 SX-Bs_run-leg_chromatic</b> Octave runs, legato Chromatic 1 velocity layer AB switch: up/down		<b>Samples: 18</b>	<b>RAM: 1 MB</b>
<b>02 SX-Bs_run-leg_whole</b> Octave runs, legato Whole tone 1 velocity layer AB switch: up/down		<b>Samples: 18</b>	<b>RAM: 1 MB</b>

**16 BENDS DOWN****Range: G1–C4****01 SX-Bs\_sus\_Vib\_bend****Samples: 105****RAM: 6 MB**

Single notes: Sustained, vibrato, with bend release  
 3 velocity layers  
 Release samples  
 AB switch: bend short/long

**11 SX-Bs\_perf-legato\_Vib\_bend****Samples: 394****RAM: 24 MB**

Interval performances: Legato, with vibrato, with bend release  
 1 velocity layer  
 Release samples  
 AB switch: bend short/long

**12 SX-Bs\_perf-legato\_grace\_bend****Samples: 728****RAM: 45 MB**

Interval performances: Grace notes, legato, minor 2nd to octave, with bend release  
 2 velocity layers  
 Release samples  
 AB switch: bend short/long

**13 SX-Bs\_perf\_gliss-up\_bend****Samples: 308****RAM: 19 MB**

Interval performances: Glissandos, upward, minor 2nd to octave, with bend release  
 1 velocity layer  
 Release samples  
 AB switch: bend short/long

**14 SX-Bs\_perf-marcato\_bend****Samples: 394****RAM: 24 MB**

Interval performances: Marcato, with bend release  
 1 velocity layer  
 Release samples  
 AB switch: bend short/long

**21 SX-Bs\_perf-trill\_bend****Samples: 1228****RAM: 76 MB**

Multi interval performances: Performance trills, legato, minor to major 2nd, with bend release  
 2 velocity layers  
 Release samples  
 AB switch: bend short/long

## 98 RESOURCES

Isolated dynamics repetitions: Legato, portato, staccato  
 Single layer long notes  
 Legato with sustain crossfading

### 01 Perf Rep dyn

Range: G1–C4



#### 01 SX-Bs\_rep\_cre5\_leg-1 (2/3/4/5)

Samples: 15

RAM: 1 MB

Extracted repetition  
 Legato, crescendo, 1st to 5th note  
 1 velocity layer

#### 01 SX-Bs\_rep\_dim5\_leg-1 (2/3/4/5)

Samples: 15

RAM: 1 MB

Extracted repetition  
 Legato, diminuendo, 1st to 5th note  
 1 velocity layer

#### 02 SX-Bs\_rep\_cre9\_por-1 (2/3/4/5/6/7/8/9)

Samples: 15

RAM: 1 MB

Extracted repetition  
 Portato, crescendo, 1st to 9th note  
 1 velocity layer

#### 02 SX-Bs\_rep\_dim9\_por-1 (2/3/4/5/6/7/8/9)

Samples: 15

RAM: 1 MB

Extracted repetition  
 Portato, diminuendo, 1st to 9th note  
 1 velocity layer

#### 03 SX-Bs\_rep\_cre9\_sta-1 (2/3/4/5/6/7/8/9)

Samples: 15

RAM: 1 MB

Extracted repetition  
 Staccato, crescendo, 1st to 9th note  
 1 velocity layer

#### 03 SX-Bs\_rep\_dim9\_sta-1 (2/3/4/5/6/7/8/9)

Samples: 15

RAM: 1 MB

Extracted repetition  
 Staccato, diminuendo, 1st to 9th note  
 1 velocity layer

### 02 Long Notes - Single Layer

Range: G1–C4



#### 01 SX-Bs\_sus\_p

Samples: 30

RAM: 1 MB

Sustained, piano  
 1 velocity layer  
 Release samples

#### 02 SX-Bs\_sus\_mf

Samples: 30

RAM: 1 MB

Sustained, mezzoforte  
 1 velocity layer  
 Release samples



**03 SX-Bs\_sus\_f****Samples: 30****RAM: 1 MB**

Sustained, forte  
1 velocity layer  
Release samples

**03 Perf Speed variation****Range: G1–C4****01 SX-Bs\_perf-leg\_sustain****Samples: 394****RAM: 24 MB**

Interval performances: Legato with sustain crossfading  
1 velocity layer  
Release samples

**99 RELEASE**

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

# Matrices

## Matrix - LEVEL 1

### L1 SX-Bs Articulation Combi

**Samples: 712    RAM: 44 MB**

Single notes

Staccato, portato short, sustained with and without vibrato normal and with bends, crescendo-diminuendo with vibrato 3 and 5 sec., fortissimo and sforzato with vibrato, trills half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C6–F6      Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6	E6	F6
V1	stac	sus vib.	sus vib. bend	pfp vib. 3s.	fp vib.	trill half
V2	port. short	sus no vib.	sus no vib. bend	pfp vib. 5s.	sfz vib.	trill whole

### L1 SX-Bs Perf-Legato Speed

**Samples: 1208    RAM: 75 MB**

Performance legato with vibrato and sustain crossfading, with vibrato, and fast

Performance legato with vibrato and bend release

Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones      Vertical: Modwheel, 2 zones

	H1	H2	H3
legato normal	vib. sustain XF	vib. normal	fast
legato bend	%	%	%

### L1 SX-Bs Perf-Repetitions Combi

**Samples: 690    RAM: 43 MB**

Repetition performances

Legato, portato, staccato

**Matrix switches:** Vertical: Modwheel, 3 zones

	repetitions
V1	legato
V2	portato
V3	staccato

## Matrix - LEVEL 2 A - Advanced

### 01 SX-Bs Perf-Universal

**Samples: 1702    RAM: 106 MB**

Interval performances

Legato vibrato with sustain crossfading, normal, and fast

Performance glissando, up

Marcato normal and fast

Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones      Vertical: Modwheel, 3 zones

	H1	H2	H3
legato	sustain XF	normal	fast
glissando up	%	%	%
marcato	normal	normal	fast

**02 SX-Bs Perf-Trill Speed****Samples: 1659 RAM: 103 MB**

Multi interval performances

Legato with vibrato, trills

Legato vibrato with bend release, trills with bend release

Glissandos, trills

Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones Vertical: Modwheel, 3 zones

	H1	H2
V1	legato vib.	trills
V2	legato vib. bends	trill bends
V3	glissando	trills

**03 SX-Bs Short+Long notes - All****Samples: 630 RAM: 39 MB**

Single notes

Staccato, portato short, portato medium

Sustained with vibrato

**Matrix switches:** Horizontal: Keyswitches, C6–D#6

	C6	C#6	D6	D#6
V1	staccato	port. short	port. medium	sus. vibrato

**Matrix - LEVEL 2 B - Standard****11 SX-Bs Perf-Legato Speed****Samples: 1148 RAM: 71 MB**

Performance legato with sustain crossfading, with vibrato, and fast

Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
legato	sustain XF	vibrato	fast

**12 SX-Bs Perf-Marcato Speed****Samples: 562 RAM: 35 MB**

Interval performances^mMarcato normal and fast

Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones

	H1	H2
Marcato	normal	fast

**13 SX-Bs Perf-Glissando Speed****Samples: 1155 RAM: 72 MB**

Performance glissando, legato with vibrato, and legato fast

Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
V1	glissando	legato vibrato	legato fast

**14 SX-Bs Short notes - All****Samples: 608 RAM: 38 MB**

Single notes

Staccato, portato short, portato medium, and slap

**Matrix switches:** Horizontal: Keyswitches, C6–D#6

	C6	C#6	D6	D#6
V1	staccato	port. short	port. med.	slap

**15 SX-Bs Dynamics****Samples: 390    RAM: 24 MB**

Dynamics

Medium crescendo and diminuendo with vibrato, 4 and 5 sec.

Strong crescendo and diminuendo with vibrato, 3 and 5 sec.

Medium crescendo and diminuendo without vibrato, 2 and 3 sec.

Crescendo-diminuendo with vibrato, 3 and 5 sec.

Fortepiano and sforzato with vibrato

**Matrix switches:** Horizontal: Keyswitches, C6–C#6    Vertical: Modwheel, 5 zones

	C6	C#6
medium dyn. vib.	4 sec.	5 sec.
strong dyn. vib.	3 sec.	5 sec.
med.dyn. no vib.	2 sec.	3 sec.
pfp vib.	3 sec.	5 sec.
fp/sfz vib.	fp	sfz

**16 SX-Bs Trills - normal****Samples: 168    RAM: 10 MB**

Trills

Normal and dynamics

Half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C6–C#6    Vertical: Modwheel, 2 zones

	C6	C#6
half tone	normal	dynamics
whole tone	normal	dynamics

**17 SX-Bs Trills - accelerando****Samples: 141    RAM: 8 MB**

Trills accelerando

Normal and dynamics

Half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C6–C#6    Vertical: Modwheel, 2 zones

	C6	C#6
half tone	normal	dynamics
whole tone	normal	dynamics

**18 SX-Bs Trills - All****Samples: 309    RAM: 19 MB**

Trills constant speed and accelerando

Normal and dynamics

Half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C6–D#6    Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6
half tone	normal	dynamics	accelerando	acc. dynamics
whole tone	normal	dynamics	accelerando	acc. dynamics

**19 SX-Bs Bends - sus****Samples: 150    RAM: 9 MB**

Sustained notes with vibrato

Normal and with bend release

**Matrix switches:** Vertical: Modwheel, 2 zones

	H1
V1	sus. vib.
V2	sus. vib. bend RS

**20 SX-Bs Bends - Perf****Samples: 825    RAM: 51 MB**

Interval performances: Legato, glissando, and marcato  
 Normal and with bend release

**Matrix switches:** Horizontal: Keyswitches, C6–D6      Vertical: Modwheel, 2 zones

	C6	C#6	D6
normal	legato	glissando	marcato
bend RS	%	%	%

**Matrix - LEVEL 2 C - Repetitions****31 SX-Bs Perf-Repetitions - Combi****Samples: 690    RAM: 43 MB**

Repetition performances  
 Legato, portato, and staccato

**Matrix switches:** Horizontal: Keyswitches, C6–D6

	C6	C#6	D6
V1	legato	portato	staccato

**32 SX-Bs Perf-Repetitions - Speed****Samples: 690    RAM: 43 MB**

Repetition performances  
 Legato, portato, and staccato  
 Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
V1	legato	portato	staccato

**Matrix - LEVEL 2 D - Scale+Phrase****41 SX-Bs Scale runs-legato - Special****Samples: 36    RAM: 2 MB**

Octave runs, legato, chromatic and whole tone  
 AB switch up/down

**Matrix switches:** Vertical: Modwheel, 2 zones

	legato
V1	chromatic
V2	whole tone

**42 SX-Bs Grace notes - All****Samples: 582    RAM: 36 MB**

Grace notes, minor 2nd to octave  
 AB switch up/down

**Matrix switches:** Horizontal: Keyswitches, C6–B6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6	A6	A#6	B6
interval	min. 2nd	maj. 2nd	min. 3rd	maj. 3rd	4th	dim. 5th	5th	min. 6th	maj. 6th	min. 7th	maj. 7th	octave

**Matrix - LEVEL 2 E - Keyswitch Vel****71 SX-Bs Legato - cre5****Samples: 75****RAM: 4 MB**

Legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–E6

	C6	C#6	D6	D#6	E6
velocity	1st	2nd	3rd	4th	5th

**72 SX-Bs Portato - cre9****Samples: 135****RAM: 8 MB**

Portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**73 SX-Bs Staccato - cre9****Samples: 135****RAM: 8 MB**

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**74 SX-Bs Combi - cre9****Samples: 270****RAM: 16 MB**

Portato and staccato: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6      Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

**75 SX-Bs Legato - dim5****Samples: 75****RAM: 4 MB**

Legato notes: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

	C6	C#6	D6	D#6	E6
velocity	1st	2nd	3rd	4th	5th

**76 SX-Bs Portato - dim9****Samples: 135****RAM: 8 MB**

Portato notes: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**77 SX-Bs Staccato - dim9****Samples: 135****RAM: 8 MB**

Staccato notes: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**78 SX-Bs Combi - dim9****Samples: 270    RAM: 16 MB**

Portato and staccato: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–G#6      Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

## Presets

### SX-Bs VSL Preset Level 1

Samples: 2460 RAM: 153 MB

L1 SX-Bs\_Perf-Legato Speed

L1 SX-Bs\_Articulation Combi

L1 SX-Bs\_Perf-Repetitions Combi

Preset keyswitches: C7–D7

### SX-Bs VSL Preset Level 2

Samples: 3954 RAM: 247 MB

01 SX-Bs Perf-Universal

02 SX-Bs Perf-Trill Speed

L1 SX-Bs Articulation Combi

31 SX-Bs Perf-Repetitions - Combi

74 SX-Bs Combi - cre9

19 SX-Bs Bends - sus

Preset keyswitches: C7–F7