

Vienna Instruments
Solo Download Instruments
Bass Saxophone
Full Library

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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.

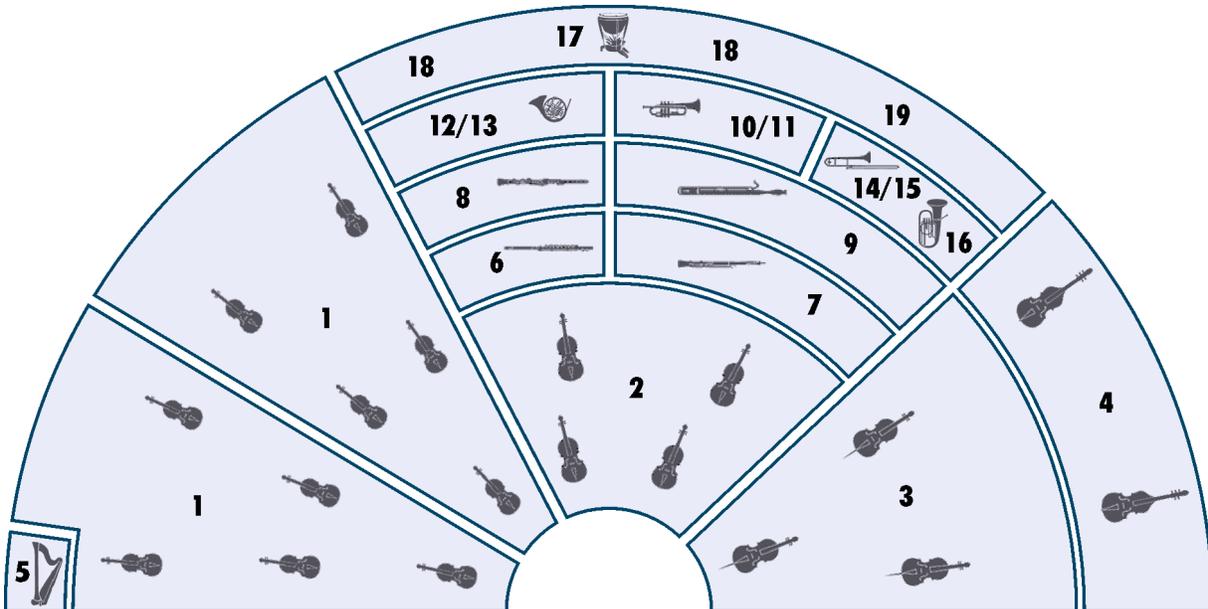
Abbreviation	Meaning	Abbreviation	Meaning
150, 160, ...	150, 160, ... BPM (beats per minute)	lo	long
1s, 2s, ...	tone length 1 sec., 2 sec., ...	marc	marcato
acc	accelerando	me	medium
all	combination of all Patches of a category	mi	minor
cre	crescendo	noVib	without vibrato
dim	diminuendo	perf-rep	repetition 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

74 Bass Sax	
01 SHORT + LONG NOTES	Staccato Portato short and medium Slap Sustained with vibrato Short and long bends
02 DYNAMICS	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
03 FLATTER + TRILLS	Flutter tonguing, crescendo Trills normal and accelerando, minor and major 2nd Dynamics for all trills
10 PERF INTERVAL	Legato with vibrato Grace notes, minor 2nd to octave Glissandos, up, minor 2nd to octave Marcato
11 PERF INTERVAL FAST	Legato Marcato
12 PERF TRILL	Trills, legato, minor to major 2nd
13 PERF REPETITION	Legato Portato Staccato Dynamics for all repetitions
14 GRACE NOTES	Grace notes Minor 2nd to octave Up and down
15 SCALE RUNS	Octave runs Legato, chromatic and whole tone Up and down
16 BENDS DOWN	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		
01 SX-Bs_staccato			Samples: 180	RAM: 11 MB
Staccato 3 velocity layers 4 Alternations				
02 SX-Bs_portato_short			Samples: 180	RAM: 11 MB
Portato, short 3 velocity layers 4 Alternations				
03 SX-Bs_portato_medium			Samples: 180	RAM: 11 MB
Portato, medium 3 velocity layers 4 Alternations				
04 SX-Bs_slap		Range: G1-C#3	Samples: 68	RAM: 4 MB
Slap 2 velocity layers 2 Alternations				
11 SX-Bs_sus_Vib		Range: G1-C4	Samples: 90	RAM: 5 MB
Sustained, with vibrato 3 velocity layers Release samples				
21 SX-Bs_bend			Samples: 60	RAM: 3 MB
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**

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

41 SX-Bs_fp_Vib Fortepiano, with vibrato 1 velocity layer		Samples: 15	RAM: 1 MB
42 SX-Bs_sfz_Vib Sforzato, with vibrato 1 velocity layer		Samples: 15	RAM: 1 MB
51 SX-Bs_fp_noVib Fortepiano, without vibrato 1 velocity layer		Samples: 15	RAM: 1 MB
52 SX-Bs_sfz_noVib Sforzato, without vibrato 1 velocity layer		Samples: 15	RAM: 1 MB
03 FLATTER + TRILLS		Range: G1-A#3	
01 SX-Bs_flatter_cre Flutter tonguing, crescendo 1 velocity layer	Range: G1-C4	Samples: 29	RAM: 1 MB
11 SX-Bs_trill_1 Trills, minor 2nd 2 velocity layers Release samples		Samples: 56	RAM: 3 MB
12 SX-Bs_trill_2 Trills, major 2nd 2 velocity layers Release samples		Samples: 56	RAM: 3 MB
13 SX-Bs_trill_1_dyn Trills, crescendo and diminuendo, minor 2nd 1 velocity layer AB switch: crescendo/diminuendo		Samples: 28	RAM: 1 MB
14 SX-Bs_trill_2_dyn Trills, crescendo and diminuendo, major 2nd 1 velocity layer AB switch: crescendo/diminuendo		Samples: 28	RAM: 1 MB
15 SX-Bs_trill_1_acc Trills accelerando, minor 2nd 2 velocity layers Release samples		Samples: 56	RAM: 3 MB
16 SX-Bs_trill_2_acc Trills accelerando, major 2nd 2 velocity layers Release samples		Samples: 58	RAM: 3 MB

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

10 PERF INTERVAL

Range: G1–C4



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

11 PERF INTERVAL FAST

Range: G1–C4



01 SX-Bs_perf-legato_fa	Samples: 754	RAM: 47 MB
Interval performances: Legato, fast Monophonic 2 velocity layers Release samples		
02 SX-Bs_perf-marcato_fa	Samples: 506	RAM: 31 MB
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.

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

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

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.
ppf 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