

Vienna Instruments

Bassoon II

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Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Vienna Instruments! This document contains the mapping information for the Vienna Instruments Bassoon II. 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.

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. Here's an overview of the articulations/Patches contained in this Collection:

Short notes: Staccato, portato short and medium

Long notes: Sustained with and without vibrato

Dynamics: Medium and strong crescendo and diminuendo (4 durations each); fortepiano, sforzato, sforzatissimo

Flutter tonguing: Normal and crescendo

Interval performances: Legato with and without vibrato, fast legato, trills

Repetition performances: Legato, portato, staccato; normal and crescendo

Fast repetitions: 16ths at 140 to 180 BPM; double tonguing, 160 to 200 BPM

The 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. The Patch information also lists the velocity layers in detail.

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 naturally, 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.

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.

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.

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 101–112 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.

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.

42 Bassoon II

Patches

01 SHORT + LONG NOTES

Range: A#1–F5



Staccato
 Portato short and medium
 Sustained with and without vibrato

01 BA2_staccato

Samples: 312

RAM: 19 MB

Staccato
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 4 Alternations

02 BA2_portato_short

Samples: 312

RAM: 19 MB

Portato, short
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 4 Alternations

03 BA2_portato_medium

Samples: 312

RAM: 19 MB

Portato, medium
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 4 Alternations

11 BA2_sus_Vib

Samples: 312

RAM: 19 MB

Sustained, vibrato
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 Release samples
 3 Alternations

12 BA2_sus_noVib

Samples: 312

RAM: 19 MB

Sustained, no vibrato
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 Release samples
 3 Alternations

**02 DYNAMICS****Range: A#1–F5**

Medium dynamics with vibrato, 1.5/2/3/4 sec.
 Strong dynamics without vibrato, 1.5/2/3/4 sec.
 Fortepiano, sforzato, sforzatissimo

01 BA2_dyn-me_Vib_1'5s**Samples: 104****RAM: 6 MB**

Medium crescendo and diminuendo, with vibrato, 1.5 sec.
 2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
 AB switch: crescendo/diminuendo

02 BA2_dyn-me_Vib_2s**Samples: 104****RAM: 6 MB**

Medium crescendo and diminuendo, with vibrato, 2 sec.
 2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
 AB switch: crescendo/diminuendo

03 BA2_dyn-me_Vib_3s**Samples: 104****RAM: 6 MB**

Medium crescendo and diminuendo, with vibrato, 3 sec.
 2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
 AB switch: crescendo/diminuendo

04 BA2_dyn-me_Vib_4s**Samples: 104****RAM: 6 MB**

Medium crescendo and diminuendo, with vibrato, 4 sec.
 2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
 AB switch: crescendo/diminuendo

11 BA2_dyn-str_noVib_1'5s**Samples: 52****RAM: 3 MB**

Strong crescendo and diminuendo, without vibrato, 1.5 sec.
 1 velocity layer
 AB switch: crescendo/diminuendo

12 BA2_dyn-str_noVib_2s**Samples: 52****RAM: 3 MB**

Strong crescendo and diminuendo, without vibrato, 2 sec.
 1 velocity layer
 AB switch: crescendo/diminuendo

13 BA2_dyn-str_noVib_3s**Samples: 52****RAM: 3 MB**



Strong crescendo and diminuendo, without vibrato, 3 sec.
 1 velocity layer
 AB switch: crescendo/diminuendo

14 BA2_dyn-str_noVib_4s**Samples: 52****RAM: 3 MB**

Strong crescendo and diminuendo, without vibrato, 4 sec.
 1 velocity layer
 AB switch: crescendo/diminuendo

21 BA2_fp**Samples: 78****RAM: 4 MB**

Fortepiano
 1 velocity layer
 3 Alternations

22 BA2_sfz	Samples: 78	RAM: 4 MB
Sforzato 1 velocity layer 3 Alternations		
23 BA2_sffz	Samples: 78	RAM: 4 MB
Sforzatissimo 1 velocity layer 3 Alternations		
03 FLATTER	Range: A#1–F5	
Flutter tonguing, normal and crescendo		
01 BA2_flutter	Samples: 52	RAM: 3 MB
Flutter tonguing, sustained 1 velocity layer Release samples		
02 BA2_flutter_cre	Samples: 26	RAM: 1 MB
Flutter tonguing, crescendo 1 velocity layer		
10 PERF INTERVAL	Range: A#1–D5	
Legato with and without vibrato		
01 BA2_perf-legato_Vib	Samples: 1062	RAM: 66 MB
Legato, with vibrato Monophonic 2 velocity layers: 0–88 p; 89–127 f Release samples		
02 BA2_perf-legato_noVib	Samples: 1062	RAM: 66 MB
Legato, without vibrato Monophonic 2 velocity layers: 0–88 p; 89–127 f Release samples		

11 PERF INTERVAL FAST**Range: A#1–D5**

Legato fast

01 BA2_perf-legato_fa**Samples: 1082 RAM: 67 MB**

Legato, fast

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

12 PERF TRILL**Range: A#1–D5**

Multi interval performances: Trills

01 BA2_perf-trill**Samples: 1862 RAM: 116 MB**

Trills

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

13 PERF REPETITION**Range: A#1–F5**

Legato, portato, staccato

Normal and crescendo

01 BA2_perf-rep_leg**Samples: 260 RAM: 16 MB**

Legato

2 velocity layers: 0–88 p; 89–127 f

02 BA2_perf-rep_por**Samples: 450 RAM: 28 MB**

Portato

2 velocity layers: 0–88 p; 89–127 f

03 BA2_perf-rep_sta**Samples: 400 RAM: 25 MB**

Staccato

2 velocity layers: 0–88 p; 89–127 f

11 BA2_perf-rep_cre5_leg**Samples: 130 RAM: 8 MB**

Legato crescendo, 5 repetitions

1 velocity layer

12 BA2_perf-rep_cre9_por**Samples: 225 RAM: 14 MB**

Portato crescendo, 9 repetitions

1 velocity layer

13 BA2_perf-rep_cre9_sta**Samples: 225 RAM: 14 MB**

Staccato crescendo, 9 repetitions

1 velocity layer



14 FAST REPETITION

Fast repetitions, 16ths at 140 to 180 BPM
Double tonguing, 16ths at 160 to 200 BPM

01 BA2_fast-rep_140 (150/160/170/180)

Range: A#1–F5

Samples: 98

RAM: 6 MB

Staccato, 16 repetitions
16ths at 140 to 190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

11 BA2_fast-rep_DT_160 (170/180/190/200)

Range: A#1–D#5

Samples: 48

RAM: 3 MB

Staccato, 16 repetitions, double tonguing
16ths at 140 to 190 BPM
1 velocity layer
Release samples

98 RESOURCES

01 Perf Rep dyn

Range: A#1–F5

01 BA2_rep_cre5_leg-1 (2/3/4/5)

Samples: 26

RAM: 1 MB

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

02 BA2_rep_cre9_por-1 (2/3/4/5/6/7/8/9)

Samples: 25

RAM: 1 MB

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

03 BA2_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)

Samples: 25

RAM: 1 MB

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

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 - A Standard-Advanced

01 BA2 Articulation Combi

Samples: 1380 RAM: 86 MB

Staccato, portato short, sustained with and without vibrato

Fortepiano, sforzato

Flutter tonguing normal and crescendo

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

	C6	C#6	D6	D#6
V1	staccato	sus vibrato	fortepiano	flutter normal
V2	portato short	sus no vibrato	sforzato	flutter crescendo

02 BA2 Perf-Legato Speed

Samples: 1386 RAM: 86 MB

Legato with and without vibrato

Legato fast

Speed controller

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

	slow	fast
V1	legato vibrato	legato fast
V2	legato no vibrato	legato fast

03 BA2 Perf-Trill Speed

Samples: 2022 RAM: 126 MB

Legato with vibrato

Trills

Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	slow	fast
V1	legato vibrato	trills

04 BA2 Short+Long notes

Samples: 1458 RAM: 91 MB

Staccato, portato short and medium

Sustained with and without vibrato

Matrix switches: Horizontal: Keyswitches, C6–C#6 Vertical: Modwheel, 3 zones

	C6	C#6
V1	staccato	sus vibrato
V2	portato short	sus no vibrato
V3	portato medium	sus no vibrato

05 BA2 Dynamics

Samples: 858 RAM: 53 MB

Medium dynamics, 1.5/2/3/4 sec.

Strong dynamics, 1.5/2/3/4 sec.

Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C6–D#6 Vertical: Modwheel, 3 zones

	C6	C#6	D6	D#6
dyn.medium	1.5 sec.	2 sec.	3 sec.	4 sec.
dyn.strong	1.5 sec.	2 sec.	3 sec.	4 sec.
sfz	fp	sfz	sfz	sfz

Matrix - B Repetitions**11 BA2 Perf-Repetitions - Combi****Samples: 1110 RAM: 69 MB**

Repetition performances
Legato, portato, staccato

Matrix switches: Horizontal: Keyswitches, C6–D6

	C6	C#6	D6
repetitions	legato	portato	staccato

12 BA2 Perf-Repetitions - Speed**Samples: 1110 RAM: 69 MB**

Repetition performances
Legato, portato, staccato
Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
repetitions	legato	portato	staccato

13 BA2 Fast-Repetitions**Samples: 294 RAM: 18 MB**

Fast repetitions
16ths at 140 to 180 BPM

Matrix switches: Horizontal: Keyswitches, C6–E6

	C6	C#6	D6	D#6	E6
speed/BPM	140	150	160	170	180

14 BA2 Fast-Repetitions DT**Samples: 144 RAM: 9 MB**

Fast repetitions, double tonguing
16ths at 160 to 200 BPM

Matrix switches: Horizontal: Keyswitches, C6–E6

	C6	C#6	D6	D#6	E6	
speed/BPM		160	170	180	190	200

Matrix - C Keyswitch Vel**21 BA2 Legato - cre5****Samples: 130 RAM: 8 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

22 BA2 Portato - cre9**Samples: 225 RAM: 14 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

23 BA2 Staccato - cre9

Samples: 225

RAM: 14 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

24 BA2 Combi - cre9

Samples: 450

RAM: 28 MB

Portato, 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	2nd	3rd	4th	5th	6th	7th	8th	9th

Presets

BA2 VSL Preset

Samples: 5178

RAM: 323 MB

Matrices:

02 BA2 Perf-Legato Speed

03 BA2 Perf-Trill Speed

01 BA2 Articulation Combi

11 BA2 Perf-Repetitions - Combi

24 BA2 Combi - cre9

13 BA2 Fast-Repetitions

14 BA2 Fast-Repetitions DT

Matrix Keyswitches: C7–F#7