

# **HYPERION** STRINGS

## SOLO CELLO



WHERE THE WORLD IS YOUR ORCHESTRA

### ABOUT THE INSTRUMENT

**Hyperion Solo Cello** continues our solo string instrument series. It captures a full spectrum of classic orchestral cello bowing and performance techniques, with true legato, long and short strokes, pizzicatos, Bartok pizz, and various dynamic expressions. Each articulation has been sampled chromatically in a dry, intimate acoustic environment, using a close stereo pair of large diaphragm studio microphones to capture every nuance. This library also includes a collection of 867 naturally-performed short melodic phrases in major and minor keys, at slow and fast cadences, which can be transposed, tempo-synced, and sequenced in realtime.

The library features dynamic fingered and gliss true legato; a full spectrum of 7 long and 17 short note variants and styles; a catalog of 12 dynamic crescendo, decrescendo, and swell expressions; major and minor run ups and downs; and 68 effect 1-shots.



Sustain bowings include classic vibrato sustains, ponticello, harmonics, flautando, sautille, and tremolos, giving you lots of color options. The Short articulations make it easy to humanize your arrangements and find the perfect bow stroke or emotive expression for any musical moment. You can switch instantly between staccatos, spiccatos, pizzicatos, collegno taps, flautando, ponticello, harmonics, tremolo, riccochets, and Bartok pizzicato snaps. They include 4 to 8 round-robin variations per note depending on the articulation, with optional velocity/swell control and automatic time-based switching for refined realism and control.

**Hyperion Solo Cello** comes fully equipped with a range of intelligent performance features, including a full suite of articulations ready to load at the click of your mouse. We've packed the user interface with powerful sound-shaping controls to give you complete flexibility. The master preset contains all of the main chromatic multi-sampled articulations and a host of powerful expression features. Jump right in and play with our dynamic Performance articulation that effortlessly switches between sustains and short notes as you perform.

The true legato preset gives you precise control over interval timing, blending, and articulation. The phrase preset provides a wealth of unique and expressive short phrase elements that can be manipulated and sequenced to provide a live human feel.

Solo Cello also features over 860 live phrases in 24 keys. The Phrases preset includes a powerful Sequencer function, allowing you to craft the perfect sequence of live phrases. With independent start, stop, and pitch controls for each step in the sequence, the possibilities for custom creations are endless. With up to 32 steps per sequence, you can choose the playback direction from looping, to single shot, from forward, to reverse or even random!

Move seamlessly between single and grouped articulation layers with our instant A-B assignment and cross-fade control. Sequence live on-the-fly with the advanced Arpeggio system and Play-Assist key/mode locking and switching panel. Create the perfect articulation map with rapid key-switch assignment, map save/load and macro functions. Save time and tie it all together with our quick preset save/recall menus located on each panel so that you can instantly share templates and settings between sections and across the whole library. Dial in your tone, body, dynamic response and sound-stage positioning and acoustic environment on the Effects and Space panels.

Every feature is deeply customizable and we give you total freedom to shape the tone, balance, positioning and acoustic environment. The design is clean and uncluttered, but you can go as deep as you need to. You'll find a full suite of professional tools and expert features ready at hand when you need absolute control.

## ARTICULATION TYPES

### SUSTAINS

We've included emotive dynamic sustains with piano, mezzo-forte and forte dynamics and dynamic tremolo sustains with piano and forte dynamics. The **SUSTAIN DYN + REACT** articulation allows you to use the swell control to fluidly move through the dynamic range. The special **PERFORMANCE** articulation includes all the features of the SUSTAIN DYN + REACT one and also includes a tight attack, allowing you to easily play quick, short notes or hold the keys down for sustaining notes. Other long articulations include Tremolos, Sautille, and Bow Change sustains.

### SHORT NOTES

We've included a wide spectrum of short note types, with up to 4 round-robin variations per note/dynamic, all organized into an extremely easy-to-use and convenient control and playback system. There are 3 percussive types: Pizzicatos (piano and forte finger plucks), Bartok Pizzicatos (fortissimo string snaps) and Col Legno (pianissimo bow taps). There are also Staccato Ricochet, Staccato Tremolo, Ponticello, Flautando, and Harmonic staccatos.

### EXPRESSIONS

The expressions are a selection of short, medium and long articulations that transition across dynamics, from p to f, f to p and everywhere in between. We've captured a complete selection of crescendos, decrescendos, sforzandos, hairpins and swells that allow you to create more realistic and emotive arrangements quite easily. They are modular and time-aligned between the sections to allow layering. As expressions play back, you can release notes at any time to trigger a natural and dynamically-appropriate release. You can also use the Attack and Offset knobs to further shape these nuanced articulations. With these tools, you can create an infinite variety of natural and fluidly real transitions and dynamic passages.

### LEGATO

The Legato features both piano, mezzo-forte, and forte dynamic layers, with each dynamic also available as a separately selectable articulation. The legato presets feature a bracketable reponse slider, allowing you to dial in the perfect legato transition speed. Auto-Response will adjust the legato transition speed based on the timing between notes. The faster the incoming notes, the quicker the legato transition. Enabling Duet mode allows two simultaneous legato threads to be played (below a tritone).

### PHRASES

The phrases preset features most of the same controls as the Main and Legato presets, substituting a Sequencer tab in place of the Play Assist and Arpeggio tabs. There are 24 separate banks of phrases: A# Minor/Major, C Minor/Major, D Minor/Major, E Minor/Major, F# Minor/Major, and G# Minor/Major in 90 BPM and 120 BPM. The phrases can be natural, tempo-synced, or stretched with the variable slider.

# **HYPERION STRINGS**

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## **SOLO CELLO**

- Solo cello True Legato, Sustains, Shorts, Trills, Effects, and Dynamic Expressions
- Hundreds of professional live melodic phrases performed in major and minor keys
- 3 Powerful Kontakt .nki instrument presets, Master, True Legato, and Phrases
- 5,855 stereo samples in locked .ncw format
- 6.64 GB Installed
- A flexible, intuitive user interface and mixer with pro features and deep customizability
- Full FX rack with convolution reverb with custom rooms, halls, chambers & FX environments



This library has been licensed for use in the free Kontakt Player, virtual instrument engine. It can be used in Kontakt Player or the full retail version of Kontakt (version 8.2 or later) for VST, AU or AAX instrument plugin formats. You can add this product to the Kontakt "Libraries" browser. It requires online serial number registration through Native Instruments' Native Access app. This library is fully compatible with Complete Kontrol and all S-Series Keyboards by Native Instruments. Buying this library automatically qualifies you for a cross-grade discount toward the full unlocked version of Kontakt through Native Instruments!

### CREDITS

**Documentation**  
Nathan Boler

**Artwork & GUI Design**  
Chris Marshall

**Scripting**  
Chris Marshall

**Production & Recording**  
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Gregg Stephens  
Chris Marshall

**Editing & Mapping**  
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### TABLE OF CONTENTS

INTRODUCTION.....	1
OVERVIEW & CREDITS.....	4
SYSTEM REQUIREMENTS.....	5
KONTAKT INSTRUMENT HEADER.....	6
MAIN USER INTERFACE.....	7
TRUE LEGATO.....	14
SEQUENCER.....	20
LICENSING AGREEMENT.....	22
ABOUT US.....	23





## SYSTEM REQUIREMENTS

This library requires Native Instruments **Kontakt Player version 8.2 or later**, or the full retail version of **Kontakt version 8.2 or later**. The sample files are compressed to lossless 48kHz and 24 bit NCW audio format. Please read all instrument specs and software requirements before purchasing this or any other Soundiron products. **You must have at least Windows version 7 or later, or macOS 10.12 or later.**

Many instrument presets in this library are extremely system resource intensive. We highly recommend that you have a 64-bit operating system (Windows or macOS) with at least 3GB of system ram, a multi-core CPU and a 7200 rpm SATA or SSD hard disk before purchasing this particular Soundiron library. Large sample sets like those found in this library may load slowly and may cause system instability on some older machines and audio devices.

## FIDELITY

Natural sonic impurities from body and clothing movement by the performer sounds may be present in some samples. These performance sounds are natural and unavoidable. Therefore, please keep in mind that this library isn't designed to provide perfectly sterile results. Our goal is to preserve and accentuate the natural live qualities in our instruments without sucking all of the life out of them for the sake of clinical perfection.

1. If you don't already have Kontakt 8 or the Kontakt Player installed, download the Free Kontakt Player (WIN / macOS) from the Native Instruments website. You need Kontakt or Kontakt Player version 8.2 or later to use this library:

**<http://www.nativeinstruments.com/kontakt>**

2. Please download the library from our server and unpack it completely before trying to install it. You can find full instructions in the download email we send you after your purchase.

3. Make sure all instances of Kontakt are closed and launch Native Access. It is a special program that is automatically installed by Kontakt. Once it is open, find the "Add a serial" button and click it.

4. Next, copy your serial number from the download or serial number email we sent you after your purchase. This registration process is necessary to allow Kontakt and the NI Native Access to activate the product. You usually only need to do this the first time you add and activate this Library.

5. On the next screen after registering your serial number, click the Browse button to the right of the library name. This will allow you to select the folder location that you chose to install this library on your hard drive. Select the folder and then press INSTALL on the next screen to complete the process.

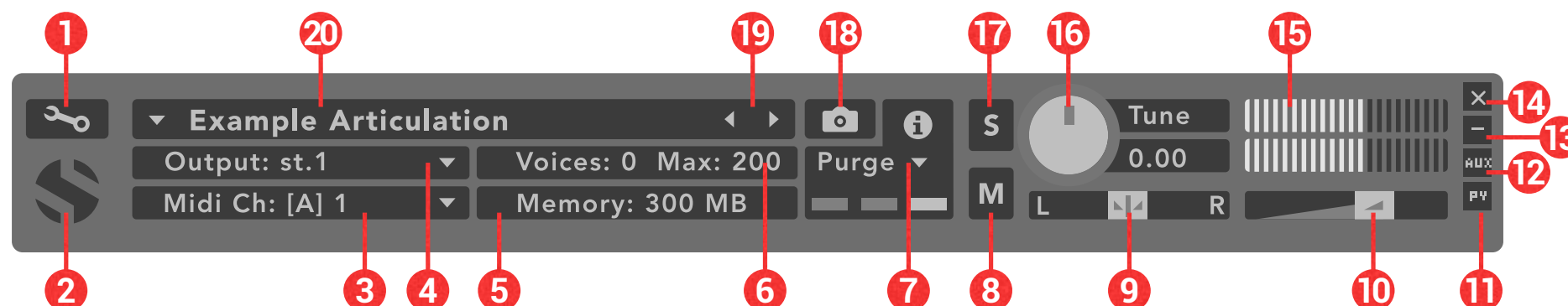
6. Exit Native Access and launch Kontakt. Go to the "Libraries" tab in the Kontakt browser window, located in the upper left area of Kontakt window, just to the right of the "files" tab. You should see this library as a new tile in the Libraries window.

7. You can find the instrument presets by clicking the Instruments button on this library's tile in the Libraries window. You can also browse and load the included .nki presets using the Files, Quick-Load or Database browser windows in Kontakt, or through the main File load/save menu.

8. Please allow any current preset to finish loading completely before loading a new one.

## KONTAKT INSTRUMENT HEADER

The top area of the user interface includes default instrument controls that are common to all Kontakt instruments.



**1. Open The Instrument Editor** - Click to view and edit the internal settings and programming of this instrument. Be careful making changes unless you're an experienced Kontakt user, as changes here can easily break the entire instrument.

**2. Close Main Control Area** - Click the Hyperion emblem to collapse the "Performance View."

**3. MIDI Input** - Click to select a midi input source. You can choose a specific midi channel, or choose "Omni" to allow the instrument to respond to midi messages and notes on any midi channel.

**4. Output** - Click to route the audio from this instrument to any available Kontakt plugin output.

**5. Memory Use Display** - This displays the amount of system RAM used by the samples and other data required by this instrument.

**6. Voice Count / Max Limit** - Displays the number of voices currently playing and the max number that may play before being automatically culled. High voice-counts can slow down your CPU and cause crackling and other issues.

**7. Purge** - This menu allows you to purge samples from RAM or reload them.

**8. Mute** - This mutes the instrument.

**9. Pan Slider** - This pans the output left or right in the stereo field.

**10. Main Volume Slider** - This controls the main output volume for the instrument.

**11. Performance View** - This button collapses the

"Performance View" to only show the instrument header bar, as seen above.

**12. Auxiliary Sends** - This opens the Auxiliary Send mixer, allowing you to route signal to the Aux Sends in the main Kontakt Mixer window (press F2).

**13. Minimize All** - This collapses the entire instrument UI down to a thin strip.

**14. Close Button** - This closes and removes the instrument from the rack.

**15. Signal Meters** - This displays the current signal level during playback.

**16. Tune Knob** - This controls the global pitch by semitone increments up to +/-36. Hold the shift key down while dragging the knob to adjust pitch in 1-cent (1/100th of a semitone). This is separate from the layer pitch settings in the instrument UI.

**17. Solo Button** - This solos the instrument and mutes all others.

**18. Snapshots** - This allows you to save and load snapshot presets for this instrument. Click the "i" button to close.

**19. Previous / Next Preset** - These arrows let you skip to the previous or next available preset within the same folder. Be aware that any settings you've changed will be lost, so we recommend saving a snapshot after making any changes if you wish to be able to load them again later.

**20. Preset Name** - This shows the currently loaded preset name.



## USER INTERFACE

The main user interface provides a complete set of sound-shaping, layering and articulation controls, including 12 independently assignable articulation slots that can be mixed, stacked, cross-faded or key-switched in real-time. Master controls include Swell, Body, Attack, Offset\*, Release, Release Volume and Vibrato. These global controls are accessible at the top of the UI window at all times. The row of tabs along the bottom give access to all the other controls, switching the view for the section of the UI below the global controls.



The Master presets include all the articulations for each section (except True-Legato), including Sustains, Staccatos, Crescendos, Decrescendos, Sforzandos, Swells, Effects, and more. Each of the 12 available slots has its own gain, pan, velocity range, key-switch assignment and A-B X-Fade Layer assignment.

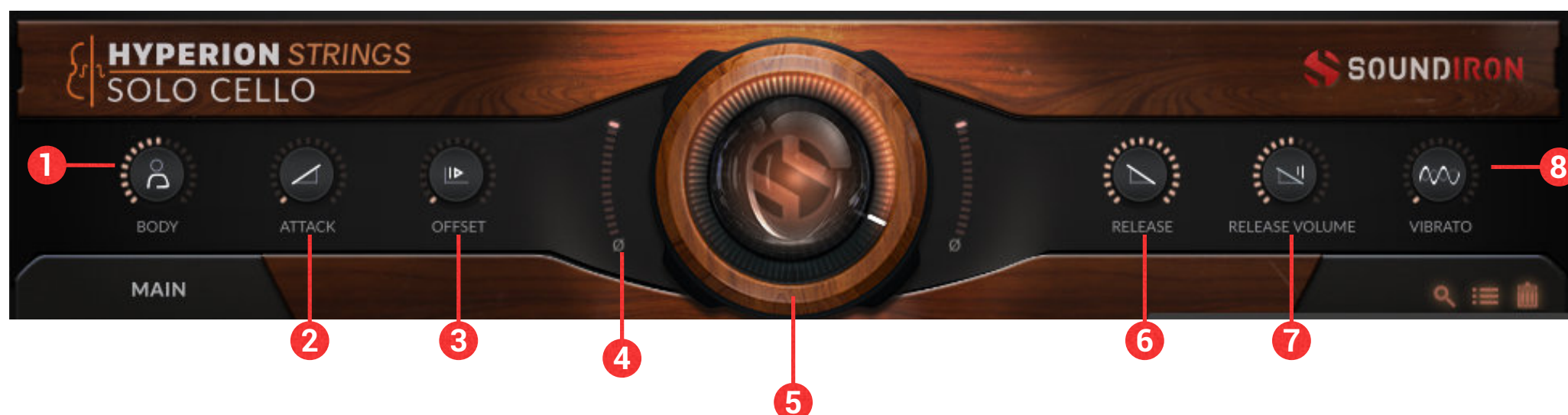
The lower left area displays the unique control set for the assigned articulation of the currently selected slot. For example, Sustains offer simulated legato with Solo and Duet modes as well as a response slider with range bracketing. The Auto-Response feature automatically adjusts the response value based on your playing speed.

Staccatos, Spiccatos, Pizzicatos, and all other short articulations feature a round-robin indicator as well as a RESET button to restart the sequence. Many feature a TIMING option as well, allowing you to choose from TIGHT, LOOSE, or TIME, which will automatically switch between loose and tight, based on your playing speed.

The Crescendo, Decrescendo, Sforzando and Swell expressions all offer Auto-Release and Play-Through modes, so you can let go whenever you like, or let the expression play to the end. There are three playback options: NORMAL, SYNC (which locks to the tempo), and VARIABLE which features a speed slider. The PROGRESS window provides a visual representation of the waveform, allowing you to track the progression through any given expression articulation.

\*OFFSET is replaced with ACCENT in True-Legato presets.

## GLOBAL CONTROLS



1. **BODY knob** - This controls the bass and presence. Higher settings produce a fuller, punchier sound. Lower values are best for simulating distance.
2. **ATTACK knob** - This controls the note attack shape. Turning this up causes the sound to fade in more gradually.
3. **OFFSET knob** - This cuts into the sample start, allowing sample playback to skip past the beginning of the sound. You can use this to make the sound more pad-like or to remove hard transient starts, especially when combined with the Attack knob.
4. **NIENTE slider** - This slider controls the amount of additional volume attenuation added to the Swell knob. When up all the way, no volume attenuation is applied and the lower dynamic layers are more audible. When down all the way, the Swell knob will bring the volume all the way down to silence.
5. **SWELL knob (CC1 by default)** - This controls the main volume, with smooth real-time tonal and dynamic attenuation. This knob cross-fades smoothly between dynamic layers in Multi-Dynamic articulations, from pianissimo to fortissimo. When using single-layered articulations or dynamic articulations in Velocity mode, the Swell knob provides direct volume and tone attenuation.
6. **RELEASE knob** - This controls the duration of the release fade out once you let go of a key. Lower values cause the sound to fade out more quickly after a note is released, while higher values fade the sound out more slowly.
7. **REL VOL knob** - This controls the volume of the release in articulations that have release samples.
8. **VIBRATO knob** - This applies subtle simulated vibrato. For articulations recorded with natural vibrato, such as the main vibrato sustains, this knob applies additional simulated vibrato to allow more intense vibrato.

## MAIN - SLOT SETTINGS

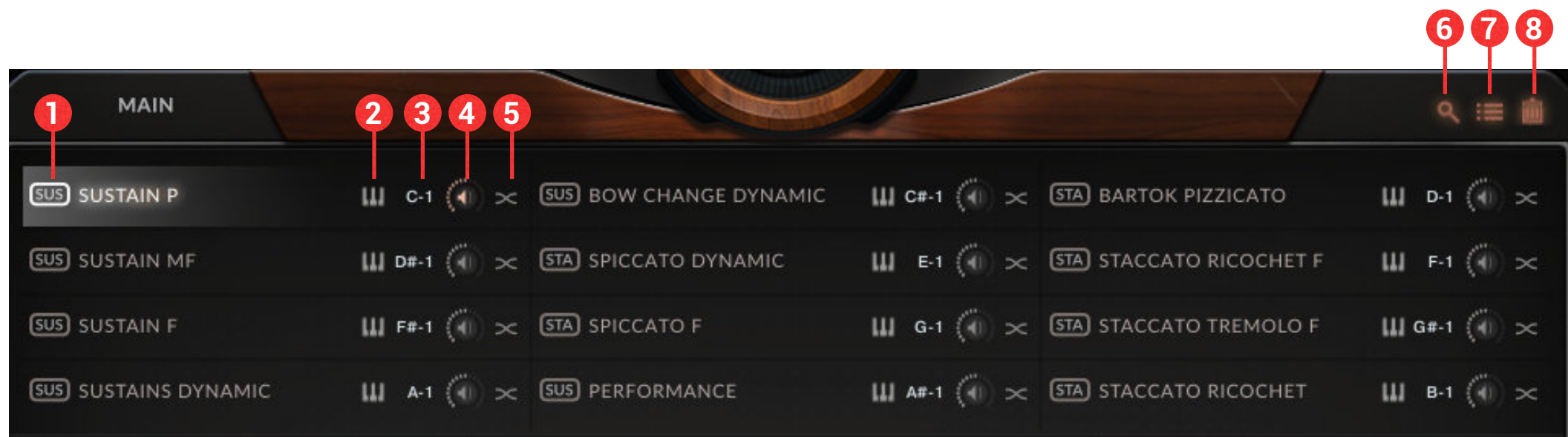
The settings for each slot are located in the lower middle area of the main control window. To edit the settings for a slot, select it in the main articulation area in the center of the main UI. When selected, a slot's current articulation assignment, pan position, velocity range and X-Fade Layer assignment settings are displayed.

- 
1. **ARTICULATION menu** - displays the articulation assignment for the currently selected slot. You can change the articulation assignment by clicking on the name and selecting a new articulation from the menu, or by clicking on the left/right arrows.
  2. **PAN slider** - This sets the left-right stereo pan position for the articulation. Each articulation slot can have its own custom pan setting.
  3. **VELOCITY RANGE values** - These set the min and max velocity thresholds. Incoming midi notes with a velocity below the MIN or above the MAX for the selected slot will not trigger the slot.
  4. **A-B X-FADE LAYER assignment** - These buttons allow you to assign the current slot to either the A or B X-Fade Layer control. A slot can only be assigned to A or B, not both. To unassign from A or B, simply click the button again to turn off the assignment.



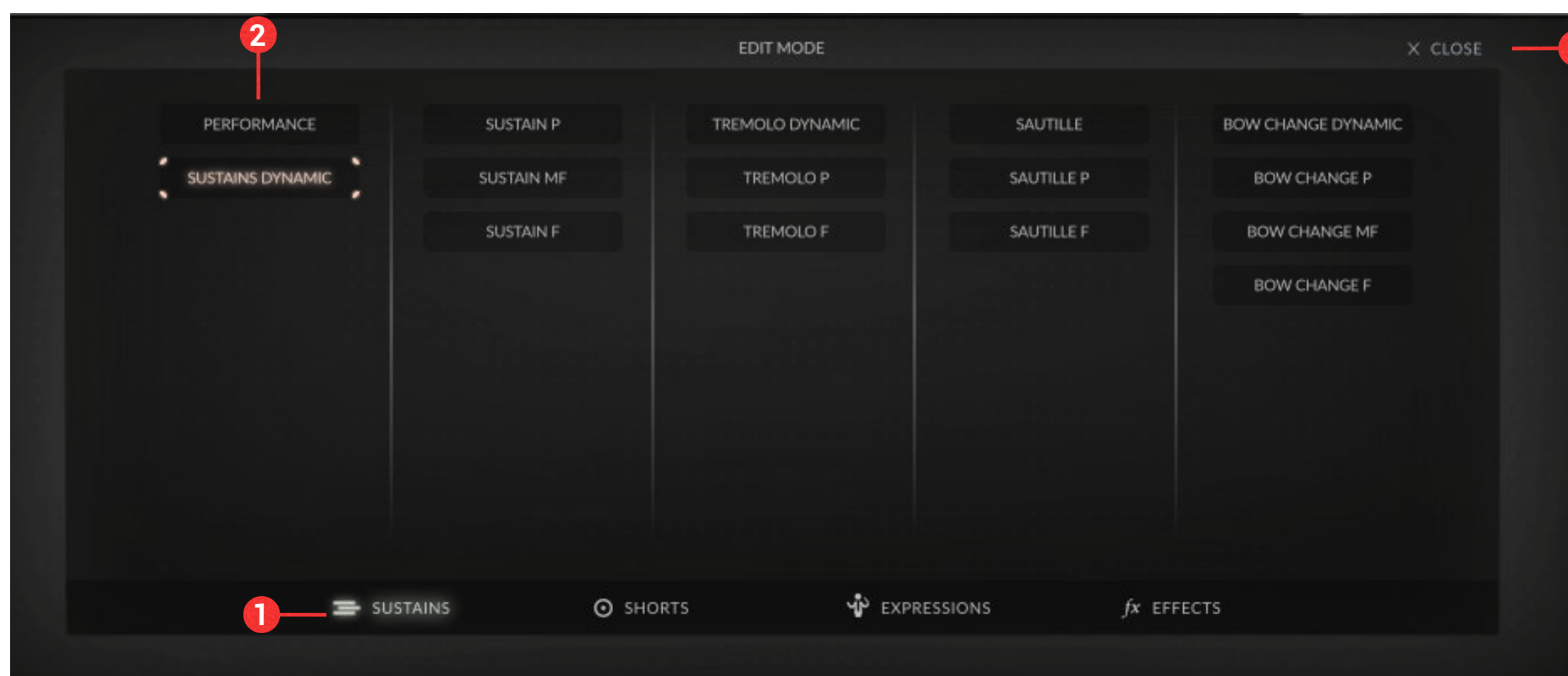
## ARTICULATION SLOTS

The **MAIN** tab features our powerful and flexible Articulation Slot system with 12 individual slots. Any articulation available in the preset can be loaded into any of the 12 available slots. Each slot corresponds to an assignable keyswitch on the right side of the slot. More than one slot can be assigned to the same keyswitch, allowing you to layer different articulations. All 12 slots also feature independent volume control and A-B Layer assignment. A slot is active when the currently assigned keyswitch is active. In the image below, note that Slot 1 is selected, but Slot 2 is *also* active because it is assigned to the same keyswitch. The articulation name and volume knobs are highlighted for all active articulation slots.



1. **SLOT SELECT button** — These buttons select the active articulation slot. Clicking on the currently selected slot again will open the drop-down menu allowing you to choose the articulation. In many presets, this list is long, so don't forget to scroll down!
2. **KEYSWITCH LEARN button** — These buttons allow you to quickly and easily assign the keyswitch assignment for a given layer. Simply click the KSW LEARN button, then press any MIDI key to assign.
3. **KEYSWITCH ASSIGN control** — These text entry fields display the current keyswitch assignment and allow you to enter in any value from C-2 up to G8. You can click and drag up or down to quickly assign, as well as typing in numeric or alphanumeric values.
4. **SLOT VOLUME knob** — These knobs control the volume for each slot. Note that the A-B X-Fade system interacts directly with these volume knobs. When assigned to A or B the center icon displays the layer assignment. The volume knob for an active slot will always appear highlighted, even if the slot is not currently selected.
5. **A-B LAYER ASSIGN menu** — These drop-down menus assign each slot to the A-B X-Fade system from NONE, to either A or B.
6. **ARTICULATION EDIT button** — This button opens up the Articulation Edit Mode window in place of the Articulation Slot window. Note that the Edit Mode window is for the currently selected articulation slot.
7. **ARTICULATION MACROS menu** — This button opens a menu with several options for the Articulation Slots. "Empty all slots" will clear all articulation selections from all slots. "Reset all start conditions" will reset all of the slot settings, including KSW assignment, Volume, and A-B Layer assignment. "Set ascending keys from first slot" will automatically assign the KSW for all slots ascending from the first slot. "Distribute velocity range equally on active slots" will spread the velocity range evenly across all slots assigned to the same keyswitch as the active slot. For example, if slots 1, 2 and 3 are all assigned to C-1, the velocity range for Slot 1 will be 1-42, for Slot 2 it will be 43-84 and for Slot 3 it will be 85-127. "Save Articulation Map" and "Load Articulation Map" allow you to save and load all the settings in the Articulation Slot system.
8. **SLOT EMPTY button** — This button will remove the articulation assignment from the currently selected slot.

## ARTICULATION EDIT MODE



The list of available articulations is very long! The Articulation Edit Mode feature provides a categorized map of the articulations, allowing you to more quickly and easily find what you're looking for. The Edit Mode is for the currently selected Articulation Slot.

- 1. CATEGORY buttons** – These buttons select the category for the available articulations. Note that the SORDINO category is only available for 1<sup>st</sup> Violins.
- 2. ARTICULATION buttons** – These buttons select the articulation. The currently selected articulation appears highlighted in blue.
- 3. CLOSE button** – This button will close the EDIT MODE window and return to the Articulation Slot window.





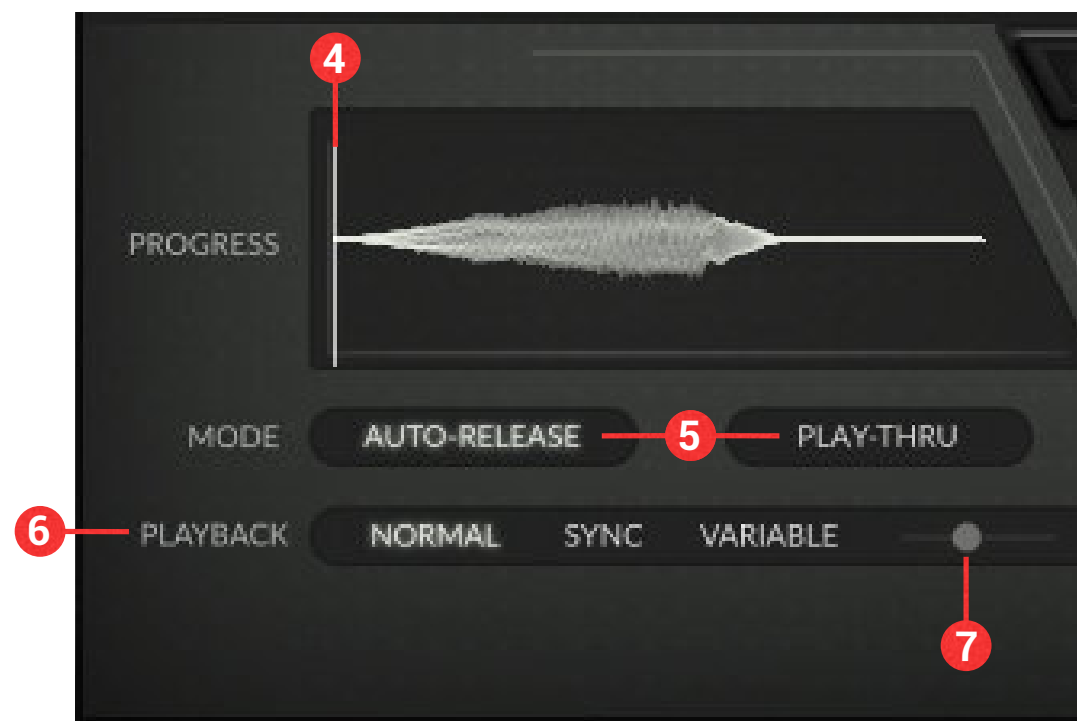
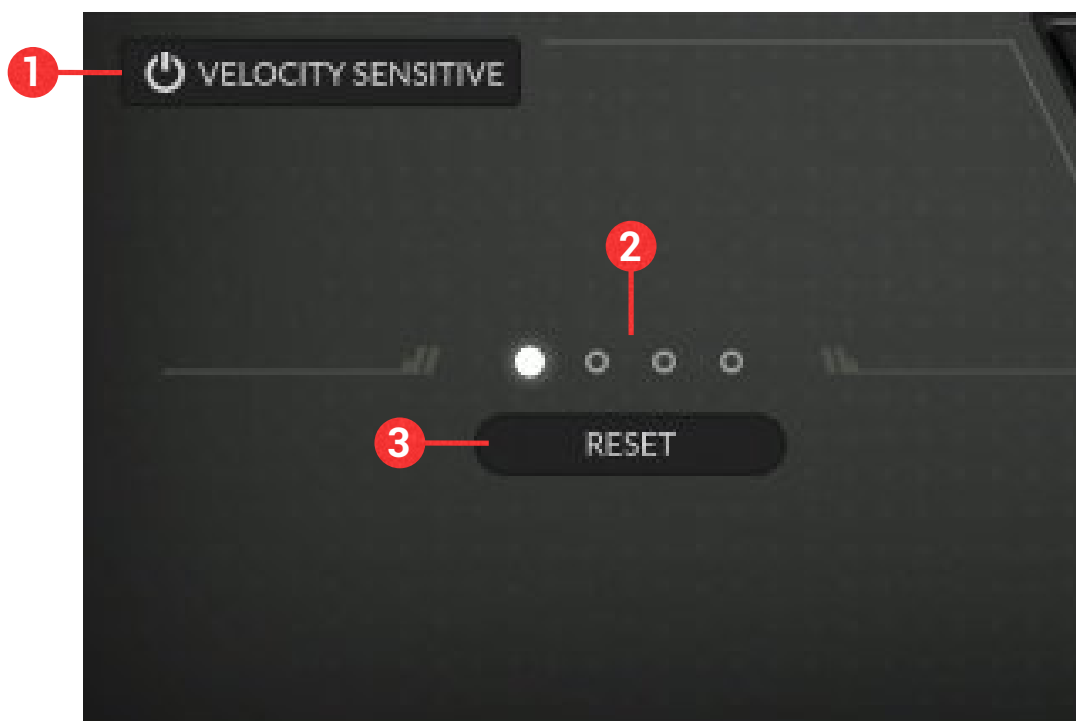
## ARTICULATION CONTROLS



The lower left area of the MAIN tab includes the articulation specific controls. Many articulations share common features, such as RESPONSE, SOLO/DUET, and LEGATO controls for the Sustaining articulations. Note that not all articulations of the same type include all controls.

1. **LEGATO button** — This enables the legato system, allowing you to seamlessly tie melodic passages together more naturally. In the master presets, this is a simulated legato transition. When the legato system is active, notes will smoothly transition from one to the next as long as you keep the old note held down briefly after triggering the new note.
2. **RESPONSE slider** — This controls the interval transition speed when legato is on. Lower values provide smoother, more gradual transitions, while higher values produce more transient, distinct intervals.
3. **CONSTRAIN sliders** — These arrows above and below the Response slider allow you to limit the range of the auto-response feature.
4. **AUTO-RESPONSE button** — When active, the legato response will adapt to the speed at which you play. Click and drag the arrows along the response slider to set the minimum and maximum legato response speed you want to allow. We recommended leaving this on, unless you need manual control over the speed of individual legato transitions.
5. **SOLO / DUET selector** — This toggles between monophonic mode and semi-polyphonic mode. Solo mode triggers legato transitions between any two played notes across the section's entire key-range. Duet mode limits legato transitions to intervals within 1/2-octave from the current note, but allows two independent legato melodies to be played simultaneously, as long as they are farther than 1/2-octave apart.

## ARTICULATION CONTROLS (cont.)

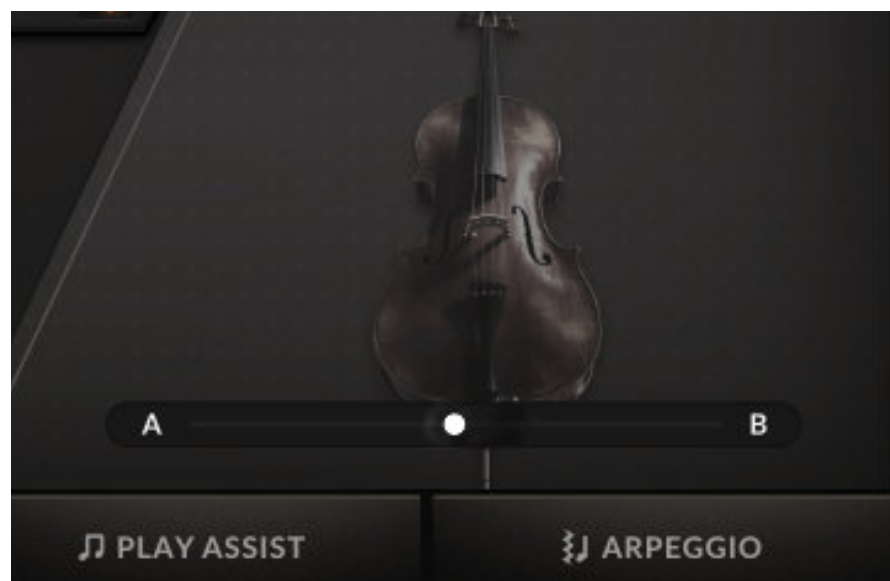


1. **VELOCITY SENSITIVE button** — This switches the articulation to velocity sensitive mode. When this is active, your midi velocity controls the dynamic layering for staccato, staccatissimo multi-staccato articulations, rather than the Swell knob.
2. **ROUND ROBIN indicator** — This indicator provides a visual representation of the round robin cycling. While there are only 4 dots, the number of round robin samples varies per articulation for each section.
3. **RESET button** — This button allows you to restart the round robin cycle from the beginning when pressed.
4. **PROGRESS window** — The Progress Window provides a visual representation of the current waveform, along with a non-interactive playback progress indicator.

5. **MODE buttons** — The mode buttons allow you to choose whether Expressions will continue to play all the way through or automatically stop and play release samples upon when you release a note.
6. **PLAYBACK buttons** — The Playback buttons determine the playback mode of the expressions. NORMAL plays them with no time-stretching, SYNC locks them to the tempo of Kontakt (or DAW) and VARIABLE allows you to adjust the speed in real-time using the slider.
7. **VARIABLE slider** — The Playback Variable slider is only active when VARIABLE is selected as the playback mode and allows you to adjust the playback speed of the expression in real-time.



## A-B LAYER SYSTEM



In the Main and Phrases presets, the lower right area of the MAIN tab features the powerful **A-B X-Fade** layer system. This slider allows you to crossfade between any combination of articulations for an incredibly wide range of real-time performance possibilities. Each slot can be assigned to Layer A, Layer B or neither. Remember that only **active** slots will be audible, even though the A-B system will be controlling the volume knobs for all assigned slots. Slots must be assigned to the same keyswitch to be active.

### Example 1:

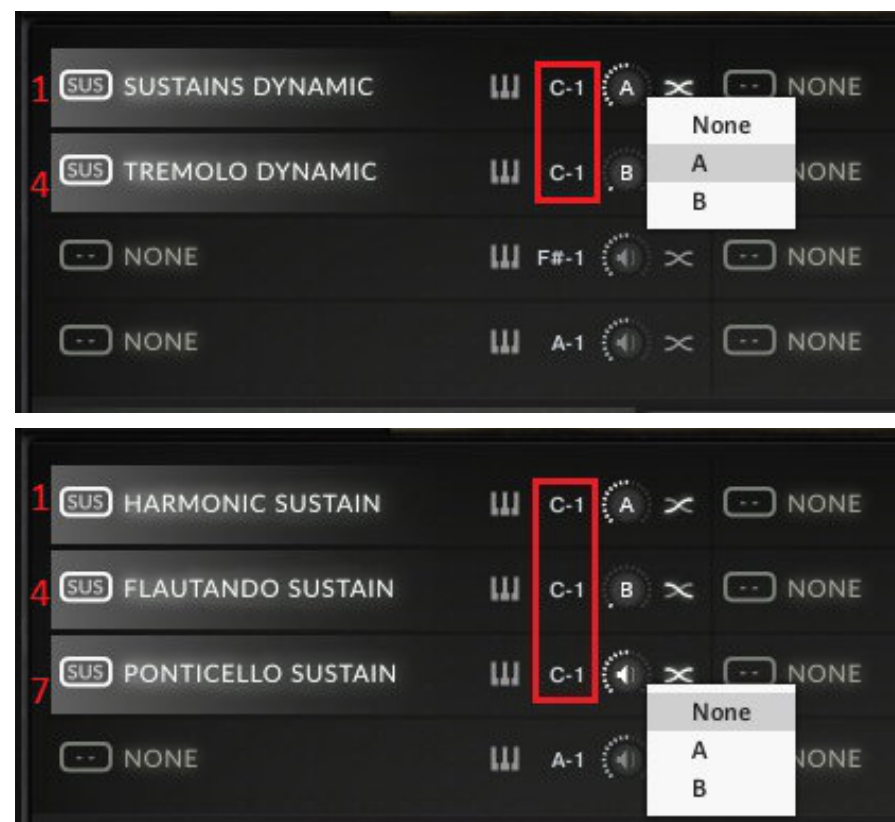
1. Assign **Slot 1** to keyswitch **C-1**. Set slot to Layer **A**.
2. Assign **Slot 4** to keyswitch **C-1**. Set slot to Layer **B**.
3. Move the **A-B X-Fade** slider to crossfade between Sustains and Tremolo.

### NONE.

4. Move the **A-B X-Fade** slider to crossfade between Harmonic Sustains and Bridge Sustains while Ponticello always plays.

### Example 2:

1. Assign **Slot 1** to keyswitch **C-1**. Set slot to Layer **A**.
2. Assign **Slot 4** to keyswitch **C-1**. Set slot to Layer **B**.
3. Assign **Slot 7** to keyswitch **C-1**. Set slot to



The A-B X-Fade system interacts directly with the volume knob for assigned slots. When a slot is assigned to layer A it will be at the maximum volume previously set if the A-B slider is all the way to the left (next to the A) and it will be at -inf (silent) when the A-B slider is all the way to the right (next to the B). The volume knob setting for each slot is recalled by the A-B system, meaning you can set the volume for a slot higher or lower than default and the A-B system will remember the value. Note that you can override the function of the A-B slider by turning up the volume of a slot that has been turned down by the slider. Moving the A-B slider again will return the knob to it's affected volume, but remember that you are setting the volume for a slot when moving the volume knob. Something to be careful about is touching the volume knob of a slot that has had the volume turned down by the A-B slider, as this will set the max volume for that slot to -inf. In this case the A-B slider will appear not to work for that layer. Simply turn up the volume knob to set the maximum volume for the slot.

## TRUE LEGATO

The True Legato presets features dynamic fingered as well as smooth mezzo-forte glissando legato transition styles with speed control that adapts to the way you play when you want it to, yet gives you total hands-on control when you need it. The True Legato presets feature most of the same controls as the Master presets with two exceptions: The **OFFSET** knob is replaced with an **ACCENT** knob. The **ACCENT** knob allows you to dial in a more precise, distinct attack to each new note. This is perfect for faster legato playing where you want an immediate start to the note. The accent only plays for the first note, not during legato transitions. The **A-B X-Fade** Layer system is not present in True Legato presets.



**ACCENT knob** — This knob replaces the **OFFSET** knob from the Master presets. When turned all the way down, the notes have their natural, more gentle attack. The higher this knob is turned up the more precise and quick the attack becomes, allowing you to play faster.

**LEGATO button** — This button turns legato on or off. All Legato presets have legato enabled by default.



## [FX] EFFECTS

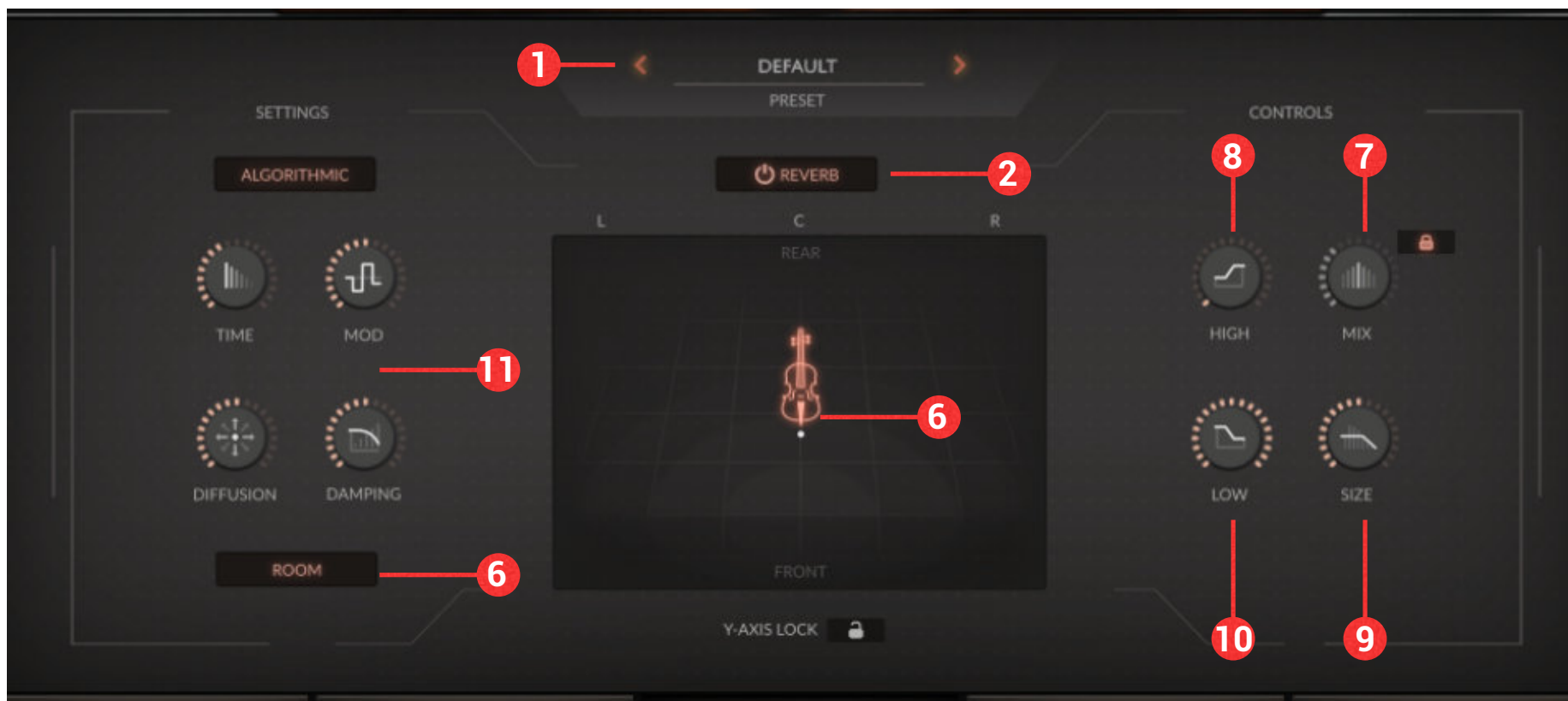
The EFFECTS tab includes selectable FILTER, Compressor, and multi-band EQ modules that can be turned on and off individually, with factory FX chain presets that can be loaded from the Preset drop-down menu. You can also save and load custom presets through the Preset drop-down menu.



1. **FILTER button** - This button turns the Filter on or off.
2. **TYPE menu** - This drop-down menu allows you to select from 12 different filter types.
3. **CUTOFF knob** - This knob controls the filter cutoff frequency.
4. **RESO. knob** - This knob controls the filter resonance level.
5. **COMPRESSOR button** - This button turns the Compressor on or off.
6. **COMP. CONTROL knobs** - These knobs control all the features of the Compressor.
  - **Threshold** controls the signal threshold, above which dynamic compression will be applied.
  - **Attack** controls the compression attack time.
  - **Ratio** controls the compression ratio with higher values applying stronger compression.
  - **Release** controls the release time.
  - **Makeup** applies or reduces output gain after the compression has been applied.
7. **EQUALIZER button** - This button turns the EQ on or off.
8. **LOW BAND knobs** - The LOW GAIN knob sets the low frequency band gain. The Q knob controls the bandwidth of the low band. The FREQ knob controls the low band's frequency center.
9. **MID BAND knobs** - The MID GAIN knob sets the mid frequency band gain. The Q knob controls the bandwidth of the mid band. The FREQ knob controls the mid band's frequency center.
10. **HIGH BAND knobs** - The HIGH GAIN knob sets the high frequency band gain. The Q knob controls the bandwidth of the high band. The FREQ knob controls the high band's frequency center.
11. **PRESET menu** - This menu lets you load any of our custom FX presets. You can save and reload your own custom presets with the Export and Import options at the bottom of the drop-down menu. The left and right arrow buttons also allow you to quickly cycle through the presets without opening the menu.

## SPACE - ALGORITHMIC

The SPACE tab provides algorithmic and convolution reverb as well as a stage position mapping. This feature gives you the ability to place and position the instruments in a huge variety of different environments and even create otherworldly atmospheric and ambient special effects. You can also adjust the roll-off for low and high reflections, adjust wet/dry mix and the perceived size of the environment.

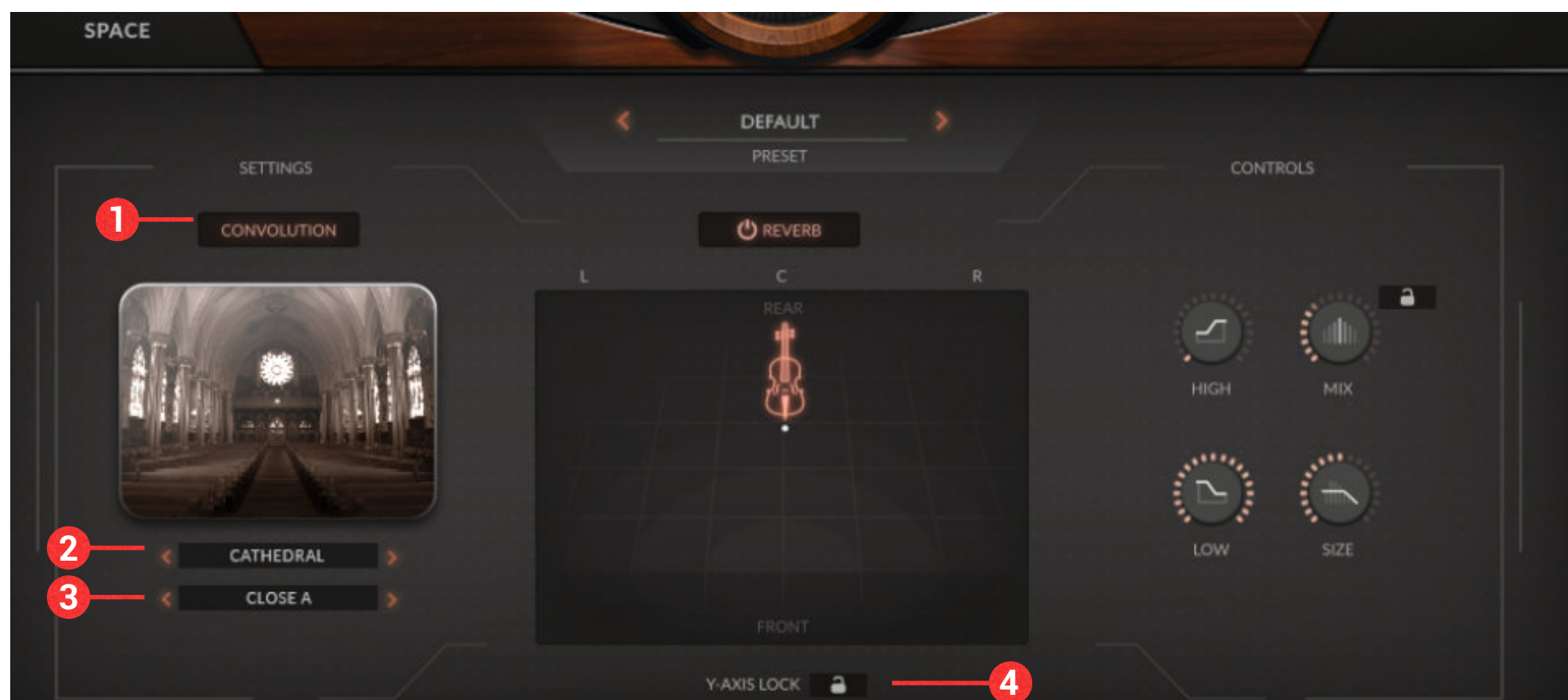


1. **PRESET menu** - This menu lets you load any of our custom Space presets. You can save and reload your own custom presets with the Export and Import options at the bottom of the drop-down menu. The left and right arrow buttons also allow you to quickly cycle through the presets without opening the menu.
  2. **ON/OFF button** - This turns the convolution reverb effect on and off. You can still use the Position map to spatialize the instruments even when the reverb effect is off.
  3. **POSITION map** - The stage mapping window allows you to freely place each section where you would like it in the sound stage, from left to right and from close to distant. Just click and drag the instrument icon.
  4. **MIX knob** - This controls the wet/dry mix for the convolution reverb effect. It's only active when reverb is on and is not a real-time automatable control.
  5. **HIGH knob** - This controls the high frequency roll-off for reverb reflections. It's only active when reverb is on and is not a real-time automatable control.
  6. **SIZE knob** - This controls the perceived size of the reverb environment. It's only active when reverb is on and is not a real-time automatable control.
  7. **LOW knob** - This controls the low frequency roll-off for reverb reflections. It's only active when reverb is on and is not a real-time automatable control.
  8. **ALGORITHMIC knobs** - TIME adjusts the duration of the reverb. MOD adjusts the amount of modulation applied to the reverb. DIFFUSION adjusts the density of the reflections in the room. DAMP adjusts the amount of absorption in the room simulated by the reverb effect.
  9. **Y-AXIS LOCK button** - This button locks the Y-AXIS (front/back or up/down) of the position map to it's current location, allowing you to more easily adjust the left and right panning placement.
- Tip: Ctrl+Left Click or Cmd+Left Click on the Position Map to return all sections to their default locations*



## SPACE - CONVOLUTION

The SPACE tab features a selectable convolution reverb mode. In convolution mode, use the special category and impulse menus to select the desired location or effect to load. There are a number of large and small spaces as well as special effects impulses to choose from.

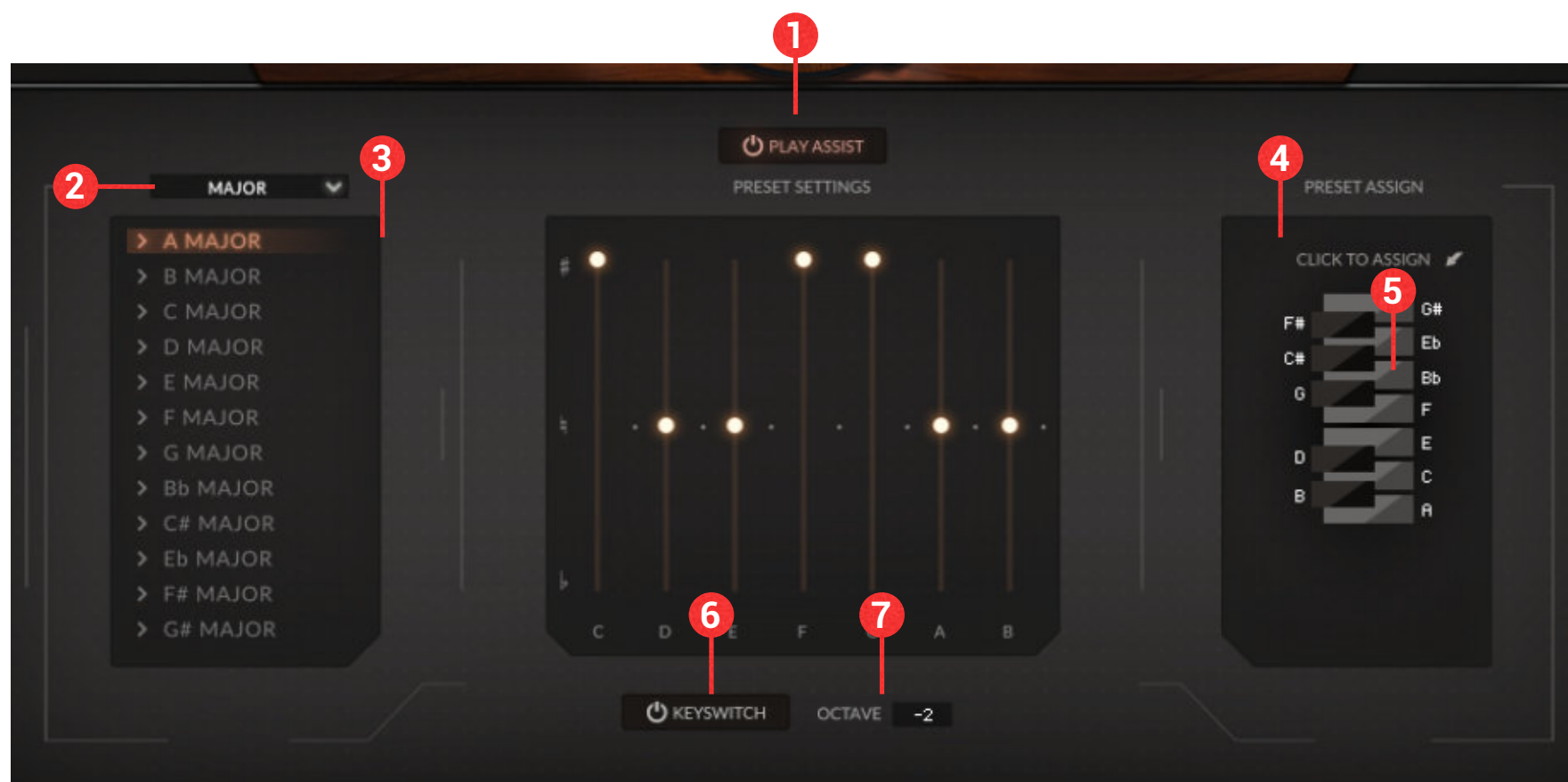


1. **REVERB TYPE button** - This button toggles between convolution or algorithmic reverb.
2. **CATEGORY menu** - Use this menu to select the environment category that you want to model.
3. **IMPULSE menu** - This menu selects the specific convolution reverb impulse that you wish to load from the selected category.
4. **Y-AXIS LINK button** - This button links the Y-AXIS (front/back or up/down) for all sections, allowing you to easily move all four of them at the same time and locking them to the same horizontal position. When this is active, a pair of up/down arrows appears above the **Violins** icon indicating that the Y-Axis movement is controlled by the Violins only. Each section can still be independently controlled along the X-axis, allowing you to position them left or right however you choose.

***A note about convolution reverb:** The convolution reverb effect, while a stereo effect, is subject to panning. This means that when using convolution reverb, if a section is panned hard left or right, the convolution reverb effect sound will also be panned hard left or right. Algorithmic reverb is applied after the panning, meaning the reverberated output sound will appear in both left and right channels.*

## PLAY ASSIST

The PLAY ASSIST tab allows you to lock the keyboard to just the specific scale you want to use and maps the notes over just white keys for convenience. You can then customize the scale using the Preset Settings sliders to move any note sharp, flat, or natural. You can then assign your scale to the yellow key-switch slot of your choice from C-2 up to B-1.

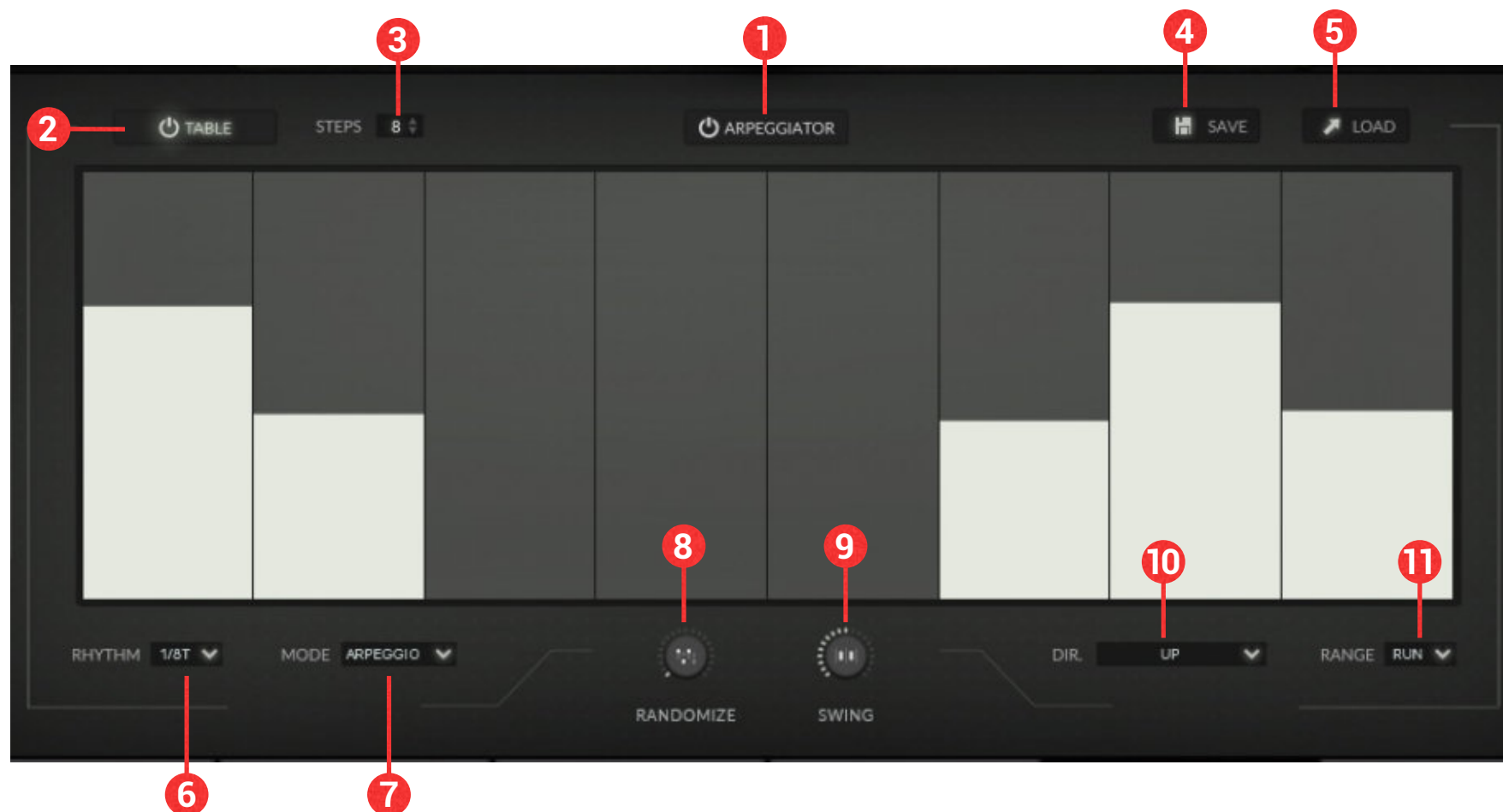


- 1. PLAY ASSIST button** - When Play Assist is activated, the black keys are turned off and the notes of your chosen scale are mapped just over the white keys, so you won't need to remember where the specific notes in the scale are. Just play up and down the keyboard without worrying about a single sour note!
- 2. SCALE TYPE menu** - Use this menu to select a scale type, from your choice of Major, Minor, Major 6, Minor 7, Suspended 4th, Whole Tone and Harmonic Minor Scales.
- 3. SCALE KEY menu** - Use this menu to select a scale key.
- 4. KEY-SWITCH ASSIGNMENT button** - Click this button to arm the key-switch assignment keyboard for assignment.
- 5. KEY-SWITCH ASSIGNMENT keys** - After pressing "Click To Assign", click on the key you wish to assign your scale preset. The scale key-switches are colored yellow and the octave placement can be set.
- 6. KEYSWITCH button** - This button activates the keyswitches, which appear yellow in the Kontakt keyboard.
- 7. OCTAVE entry** - This text entry field allows you to set the octave placement of the keyswitches from C-2 to C-7.



## ARPEGGIATOR

The ARPEGGIATOR tab allows you to create instant rhythmic and melodic patterns. You can draw the velocity in for each note in the pattern by using the graph table, or simply use the velocities that you play in real-time. You can choose your note length in the Rhythm menu. The mode menu lets you select Trill, Arpeggio, or Run modes. The Direction menu gives you a range of pattern options, from simple up/down patterns to complex cascades. You can also add swing and variation to your rhythm for a more natural flow.



1. **ARPEGGIATOR button** - This button turns the arpeggiator on or off.
2. **TABLE button** - This enables the velocity graph. When this graph is off, the pattern will use the actual velocities of the incoming midi notes as you play or sequence them.
3. **STEPS value** - This setting determines the number of velocity steps that will be cycled through in the sequence, from 2 to 32 steps in length. You can change the value by clicking and dragging it up or down.
4. **SAVE button** - This icon opens a dialog box to save the settings to your hard drive.
5. **LOAD button** - This icon opens a dialog box to select and load a previously saved preset from your hard drive.
6. **RHYTHM drop-down** - This menu selects the note time, with half note, half triplet, quarter note, quarter triplet, 8th note, 8th triplet, 16th note, 16th triplet, 32nd note and 32nd triplet.
7. **MODE drop-down** - This menu selects the Arpeggiator mode. Trill mode alternates between two notes continuously, with selectable intervals of up to an octave using the Range Menu. In Arpeggio mode, it cycles between the notes you're currently holding. You can select the number of steps to cycle through using the Range menu, from 2 to 8 steps or choose Run to continuously arpeggiate as long as you are holding down notes. In Run mode, playing a single key will trigger a melodic run across the scale, depending on your Direction and Range menu settings, and whether you're also using the Play Assist scale constraint system at the same time.
8. **RANDOMIZE knob** - This knob adds randomization to the timing of the sequence.
9. **SWING knob** - This control adds pre-beat or post-beat swing to the sequence.
10. **DIRECTION drop-down** - This drop-down allows you to choose the direction the sequencer cycles through the held notes.
11. **RANGE drop-down** - In ARPEGGIO mode, this drop-down controls how long the sequence runs. Choose from 2x to 8x, or Run will keep the sequence going until you release the keys. In TRILL mode, the Range options are Min 2<sup>nd</sup> up to Octave. In RUN mode choose from 2x to 22x or Run.

## SEQUENCER



**Sequencer On/Off** - This turns the Sequencer on and off.

**Steps Value** - This text box sets the number of steps in the sequence.

**Trigger Key** - This text box allows you to select the MIDI note used to play the sequence.

**Save Button** - This button allows you to save the Sequencer settings.

**Load Button** - This button allows you to load previously saved sequencer settings.

**Active Step** - This text knob controls the current step in the sequence.

**Start Slider/Knob** - The Start slider and knob act as a sample offset control, allow you to begin playback from anywhere in the selected sample.

**End Slider/Knob** - The End slider and knob allow you to set the end point for the selected sample.

**Pitch Knob** - This knob allows you to adjust the pitch of the current sample +/- 3 semitones.

**Direction Menu** - This menu allows you to set the direction and mode of the sequence. Options are Forward 1-shot, Forward Loop, Forward Step, Backward 1-shot, Backward Loop, Backward step, Random, and Knob Follow.

**Assign Button** - This button lets you assign a phrase to the currently selected step by pressing a MIDI key.



## MAIN PRESET KEYS

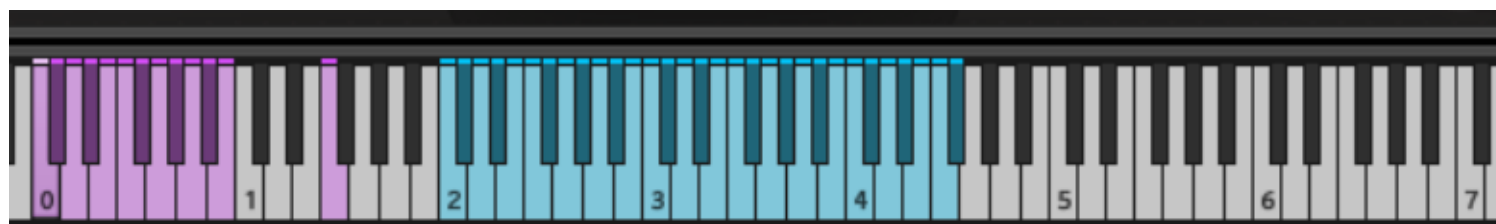


**Articulation/Sound Keyswitches** - Pressing one of these keys will change currently selected articulation slot, visible in the Articulations section of the main tab. Each articulation category has a unique color; sustains are red, shorts are green, and expressions are teal.

**Playable Keys** - The blue keys are the standard playable, chromatic keys.

**Play Assist Keyswitches** - The yellow keys select the different scales for Play Assist. These are assignable in the Play Assist section.

## PHRASES PRESET KEYS



**Phrase Set Keyswitches** - Pressing one of these orange keys will change currently selected phrase slot, visible in the Articulations section of the main tab.

**Sequence Play Key** - This violet key is the "Play" key for the Sequencer. Each press will start the sequence at the next step. Holding the key down will continuously play through the entire sequence.

**Individual Phrase Keys** - These blue keys are the individual phrases for the currently selected phrase set.

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