

# Guitaritis

## Ableton Live Pack by PerforModule User Manual



A deluxe suite of sophisticated amp racks, designed to make the most of Live's *Amp* and *Cab* devices for electric stringed instruments, plus various effect racks to further modify and bolster them.

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## Introduction:

### Updated for Live 12.

This latest version for Live 12 has had all of the Combamps updated with tailored EQs to improve their general sound as well as further LR sculpting to refine the tonal contrast when stereo-widening the dual-amp chains. **XYZ Controls** (usually just X and Y) have been set for Push 3 users. The ↔ or ⇕ symbols on a macro name indicate vertical or horizontal pad movement, or a pushing finger for Z.

### Brand-New Racks!

There are a BUNCH of new racks: the versatile “*ParallAmp*” and “*ParaCab*”, the cab enhancer “*Cab Customizer*”, seven “*Splyt*” amps, “*Pitch Down Amp*”, “*Chord Constructor*”, some new *Stomper* and *Mixing FX*, and even some hotrodDED mods of guitar-suitable racks from other PerforModule packs.

### Plug and Play.

Plug your guitar directly into your interface, drop an amp + cab onto its input track, add some pedal effects, and have a nicely usable sound for production, live, or just for playing and having fun with. Even basic practice can be much more gratifying while running one's guitar through these tasty tones.

### Enhance Your Existing Setup.

If you play a stringed electric instrument, chances are you already have some amp sims and other guitar-processing software. You don't need to choose one or the other. Less CPU-intensive than many VSTs, one can bolster their existing virtual guitar rig by supplementing with these devices.

Guitaritis works great with a direct clean signal but you can of course run your guitar through some analog pedals, additional preamp, etc. prior to heading into the interface, in order to juice up the sound even more and help define your personal sound.

### ...But Why Does *Guitaritis* Even Exist?

Ableton's built-in guitar amp models generally require a lot of tweaking to come up with useful tones for real-life guitar processing. Having these *Guitaritis* racks on-hand can skip loads of prep time by providing controls that quickly lead to helpful results. That's the core— beyond that, it's also loaded with a bunch of bonus toys useful for guitar producers.

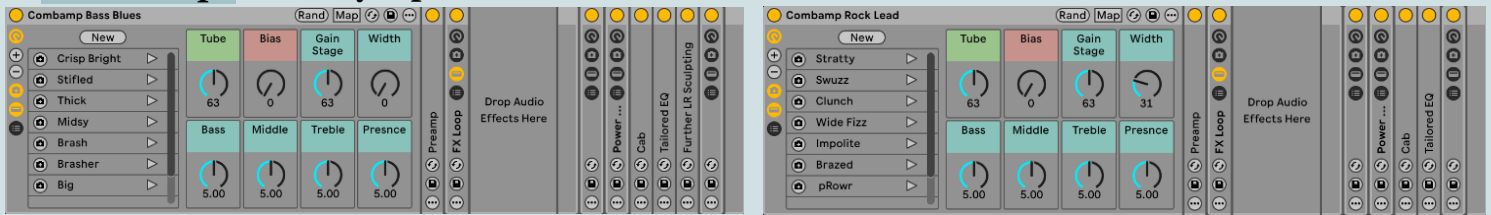
### Live Pack Folder Structure.

For the sake of cohesive organization, the varied contents of *Guitaritis* have been organized thusly:

- \_Guitaritis Amps.
  - Combo Amps.
  - ParallAmp & ParaCab.
  - Splyt Amps.
- \_Guitaritis Effects.
  - Guitar Mixing Racks.
  - Guitaritis Edition Racks.
  - Stomper Pedals.
- \_Guitaritis Miscellaneous.
  - Guitar Chords.
  - Tuners.

## Overview ~ Amp Racks:

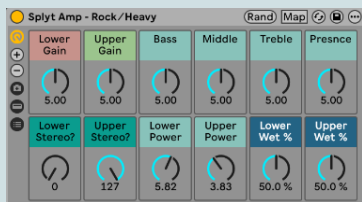
### Combamps: Freshly Updated.



The thirty combination amp racks (aka “*Combamps*”) each combine from one to three separate amp models, with variable stereo split & tailored cabs. They have tube pre-input and multistage gain-staging for exquisite drive control, as well as drop areas for making your own virtual pedalboard chains out of included Stomper FX!

All Combamps have been updated for Live 12 with even more refined gainstaging, achieving ever better consistency of level when hot-swapping between racks or adjusting the macro controls. There's some new fresh Macro Variations, too. (Note that gain-staging dynamic FX is an imperfect science due to many influencing factors. So it is still advised to fine-tune levels.)

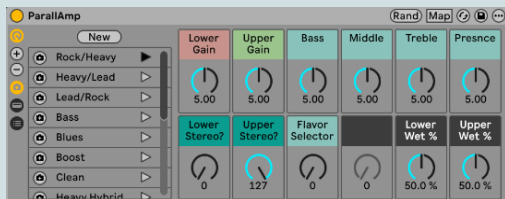
### New for Live 12: Splyt Amps!



A novel approach for a fresh set of seven combo amps, *Splyt Amps* are frequency-split into low and high chains, with carefully placed crossover points that follow their naturally-present contour dips, for the most innocuous of tonal transitions.

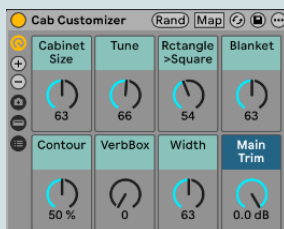
The standout feature going on here is the ability to dial in different amounts of *low* vs *high* amp drive! You can also place different plugins onto the low vs high chains. Sweet.

### New for Live 12: ParallAmp & ParaCab!



It was mused “But what if we have just one very versatile amp rack?” And thus *ParallAmp* was born, including seven chains to sweep between, each pre-loaded with a *Splyt Amp*. As you turn the *Flavor Selector* dial, it fades between these options smoothly, allowing you to choose the best-sounding choice for any given situation. *ParaCab* is a similar concept involving Cabinets.

### New for Live 12: Cab Customizer!

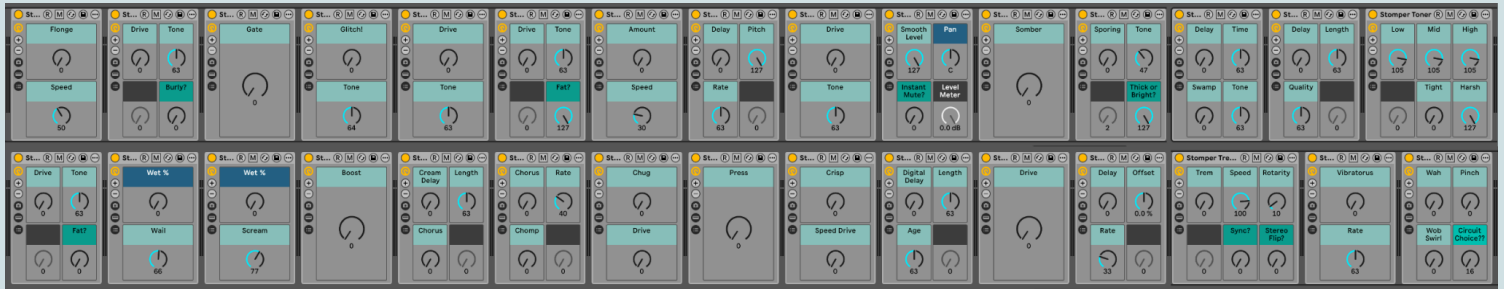


*Cab Customizer* is a rack specifically designed to augment existing cabinet simulations, in order to improve their tonal versatility and optionally add nifty custom “VerBox” reverb.

Unsolicited Opinion: Ableton's *Cabinet* device is actually an underrated gem as it has some quite nice frequency contours. It can be excellent for replacing other amp sims' built-in cabinets, at times.

## Overview ~ Effect Racks:

### The Stompers.



A bevy of **thirty foot-pedal-like effect racks** with specific functions and minimal controls. Drop them into the “FX Loop” slot of a Combamp to embed between the preamp and power amp. Or place them before the amp altogether. Or afterwards. Wherever you want.

### The Tuners.



**Robust Tuner** has been our go-to in-house guitar tuner of late, giving all of the best Tuner features together at a glance.

**Taylor Tuning** is a special way to tune acoustic guitars for a sweet sound—or it can serve as a quick starting point to implement & save your own preferred per-string re-tuning schema.

### Miscellaneous Effect Racks.



**Pitch-Down Amp** started as a curiosity and ended up pretty rad.

Turns out that pitching down an amp contour by an octave and blending that with the dry signal provides a pretty dope result.

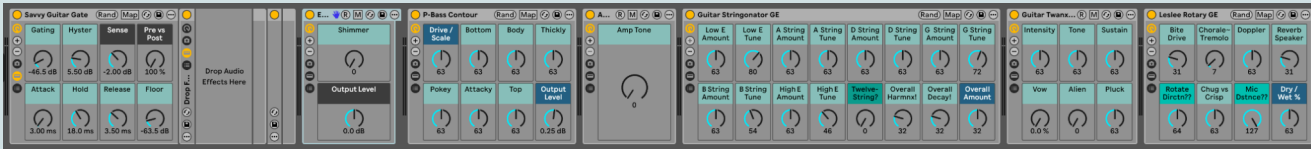
It's far from basic, however— combining two parallel amp models and three forms of pitch-shifting for a unique and characterful sound.

**Post-Amp Compressor** & **Guitaritis Clip-Limit** provide go-to dynamics control for guitars, plumb-easy to use with only two controls each. Sometimes you just need to even out some unruly level and limit the output, y'know?

Use *Post-Amp Compressor* to help even out the unpredictabilities oft-introduced by guitar amp chains.

Use *Guitaritis Clip-Limit* as the final output on your guitar track groups.

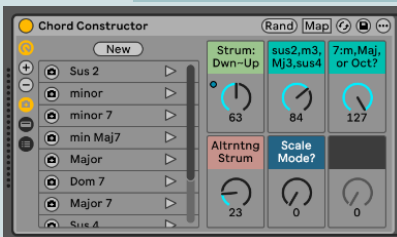
## New: Guitaritis-Edition Racks!



Hotrodged mods of some of the more guitar-centric racks from existing PerformModule packs:

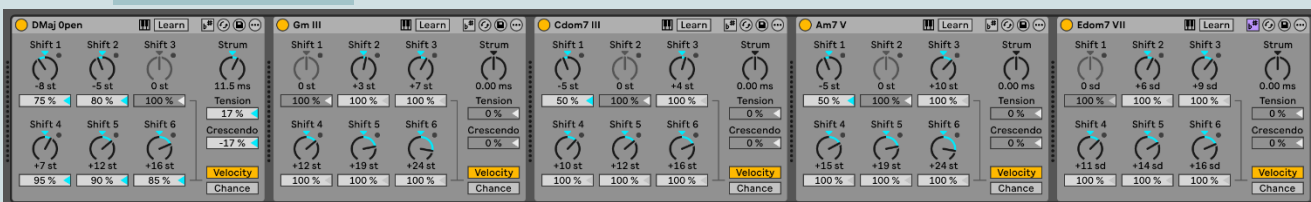
*Savy Guitar Gate,*  
*Electric Guitar Shimmer,*  
*P-Bass Contour,*  
*AbleAmp Toner,*  
*Guitar Stringonator GE,*  
*Guitar Twanxturizer,*  
*Leslee Rotary GE.*

## New: Chord Constructor Rack!



Build your own guitar-fingering-styled **guitar chords in a single midi rack**, replete with the super cool *Alternating Strum* function and Macro Variations for each of the above-mentioned Guitar Chord presets. Usable with Scale Mode Off (chords strict by type and root note) or Scale Mode On (all tones will be in-key to the current root & scale).

## The Guitar Chords Collection.



**37 Presets for the Chord MIDI device** based on guitar finger shapes, resulting in inversions that a guitarist would be likely to play. You can use them with any note in any key, simulating moving up the neck and/or using a capo. These updated versions for Live 12 also now work with Scale Mode.

Includes subcategories based on fret position:

~*Open Position Chords.*  
 ~*Second Position Chords.*  
 ~*Third Position Chords.*  
 ~*Fifth Position Chords.*  
 ~*Seventh Position Chords.*  
 ~*Tenth Position Chords.*

## Full Contents List:

**Combamps.**

~Bass Blues.  
 ~Bass Boost.  
 ~Bass Clean.  
 ~Bass Heavy.  
 ~Bass Lead.  
 ~Bass Rock.  
 ~Bass Single.  
 ~Blues Boost.  
 ~Blues Clean.  
 ~Blues Heavy.  
 ~Blues Lead.  
 ~Blues Rock.  
 ~Blues Single.  
 ~Boost Single.  
 ~Clean Boost.  
 ~Clean Single.  
 ~Heavy Boost.  
 ~Heavy Clean.  
 ~Heavy Single.  
 ~Lead Boost.  
 ~Lead Clean.  
 ~Lead Heavy.  
 ~Lead Single.  
 ~Rock Boost.  
 ~Rock Clean.  
 ~Rock Heavy.  
 ~Rock Lead.  
 ~Rock Single.  
 ~Triple Crunch.  
 ~Triple Power.

**Stomper Pedals.**

~Stomper 666 Drive.  
 ~Stomper 777 Drive.  
 ~Stomper Booster.  
 ~Stomper C-Delay.  
 ~Stomper Chomper.  
 ~Stomper Chuggernaut.  
 ~Stomper Comper.  
 ~Stomper Crisper.  
 ~Stomper D-Delay.  
 ~Stomper Dister.  
 ~Stomper Dualay.  
 ~Stomper Flonger.  
 ~Stomper Fuzzer.  
 ~Stomper Gater.  
 ~Stomper Glitcher.  
 ~Stomper Muncher.  
 ~Stomper O'Dirt.  
 ~Stomper Phozzer.  
 ~Stomper PitchDelay.  
 ~Stomper Scruncher.  
 ~Stomper Smevel.  
 ~Stomper Somber.  
 ~Stomper Sproing.  
 ~Stomper Stortion.  
 ~Stomper Swamper.  
 ~Stomper T-Delay.  
 ~Stomper Toner.  
 ~Stomper Tremotary.  
 ~Stomper Vibratorus.  
 ~Stomper Wahmper.

**Splyt Amps.**

~Splyt Amp – Bass.  
 ~Splyt Amp – Blues.  
 ~Splyt Amp – Boost.  
 ~Splyt Amp – Clean.  
 ~Splyt Amp – Heavy/Lead.  
 ~Splyt Amp – Lead/Rock.  
 ~Splyt Amp – Rock/Heavy.

**Misc. Amps.**

~ParallAmp.  
 ~ParaCab.  
 ~Cab Customizer.  
 ~Pitch-Down Amp.

**Misc. Racks.**

~AbleAmp Toner.  
 ~Electric Guitar Shimmer.  
 ~Guitar Stringonator GE.  
 ~Guitar Twanxturizer.  
 ~Guitaritis Clip-Limit.  
 ~Leslee Rotary GE.  
 ~P-Bass Contour.  
 ~Post Amp Compressor.  
 ~Robust Tuner.  
 ~Savvy Guitar Gate.  
 ~Taylor Tuner.

**MIDI Chords.**

~Chord Constructor Rack.  
 ~Adom7 0pen, ~Am 0pen, ~Am7 0pen,  
 ~AMaj 0pen, ~AMaj7 0pen, ~Ddom7 0pen,  
 ~Dm 0pen, ~Dm7 0pen, ~DMaj 0pen,  
 ~DMaj7 0pen, ~Edom7 0pen, ~Em 0pen,  
 ~Em7 0pen, ~EMaj 0pen, ~Edom7 II, ~Em  
 II, ~Em7 II, ~EMaj II, ~Cdom7 III, ~CMaj  
 III, ~Gdom7 III, ~Gm III, ~GMaj III,  
 ~Adom7 V, ~Am V, ~Am7 V, ~AMaj V,  
 ~Adom7 VII, ~Am VII, ~Am7 VII, ~AMaj  
 VII, ~Edom7 VII, ~Em VII, ~Em7 VII,  
 ~EMaj VII, ~Em X, ~EMaj X.

## Detailed Rack Descriptions.

### Amp Racks:

#### The Thirty Combamps.



The flagship armada of the *Guitaritis* series. Use these as go-to amp + cab models for a range of versatile and consistently tasteful tones to choose between. Customize further with *Stompers* and other effects.

This latest update further refines the gainstaging and tone ever more, and adds a smattering of quick-inspiration variations.

Each *Combamp* rack contains:

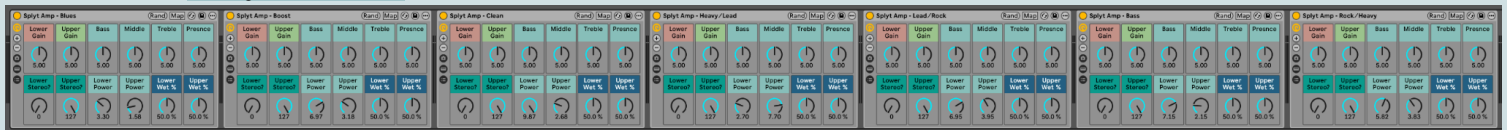
~**Tube preamp** for additional grit, more finesse to the gainstaging, and more of a realistic dynamic “sag” feel when playing a real guitar through them by hand. The specific tube type and tone are customized for each rack.

~**FX Loop**; an easy section to drop FX that will be processed after the tube pre but before the power amp and cab. The practical result of this is that adjusting the *Bias* macro may also affect internally-placed nonlinear processes.

~**'Gain Stage'** macro for adjusting the overall distortion character in a nuanced manner. It concurrently affects the drive of both amps as well as the volume at various signal points.

~**'Width'** macro which spreads the dual amp models left and right in the stereo field, scaling gains and LR EQ whilst doing so to aim for a relatively balanced sound. Can help offset the jarring difference that may occur when disparately-reacting amp models are spread wide, but also may alter the overall tone (leading to more potential coloration choices). Thus it is advised to set this while listening carefully to its effect on the sound!

#### The Seven Splyt Amps.



*Splyt Amps* are frequency-split into low and high chains, with carefully placed crossover points based on their natural contours. You can independently control the Low and High Gains as well as their Dry/Wet percentages, which allows for great flexibility in tone-sculpting.

The *Clean*, *Bass*, *Boost*, and *Blues* models use the same amp type for lower and upper sections.

*Rock*, *Heavy*, and *Lead* are mixed-and-matched for interesting combinations. (That's just how it worked out the best.)

Cool Trick: drop different FX onto lower or upper chains!

Note: Unlike *Combamps*, these do not include built-in cabs, so you'll want to use a cabinet sim afterwards.

To not overthink this process, just use the accompanying *ParaCab* device.

## ParallAmp.



**ParallAmp** combines all of the *Splyt Amps* (see above) into one rack, with the ability to fade between the chains.

It's easy to select a preferred model and also opens up new in-between possibilities by choosing values partially between adjacent amp models. That's nifty!

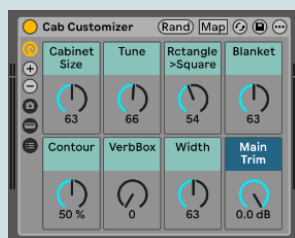
You can use it as a nice go-to Amp Sim. Ok? Remember to place a cabinet after it, usually.

## ParaCab.



Same idea as *ParallAmp*, but for Cabinets. Having **ParaCab** combinations separated into chains that can be faded between smoothly avoids jump clicks. By using the in-between settings, unbeknownst possible tones are available! Additionally, you can use totally disparate settings for Left and Right, making your own bespoke LR cab which can be quite interesting for binaural spatial purposes; setting LR differences carefully for various tracks or layers in a mix can assist in placing them into distinct locations within the perceptual 3D soundfield.

## Cab Customizer.



Designed to augment existing cabinet simulations, in order to improve their tonal versatility and optionally add custom “VerBox” reverb.

It's particularly good for smoothing out harsh, sizzly tones.

Alternately, it could be used in place of another cabinet entirely, when you only need mild contouring, or for de-harshifying overly brash instrument sounds.

## Pitch-Down Amp.



It started as a curiosity and ended up rad. Turns out that pitching down an amp contour by an octave and blending that with the dry provides a pretty dope result. It's not as simple as you might think, combining two parallel amp models and three forms of pitch-shifting for a unique sound.

Don't forget to place a cabinet after it, most likely.

### AbleAmp Toner.



Use this when you want to quickly improve the tone of Ableton's built-in Amp models. It's designed to smooth out their averages with broad tonal shaping.

It might also help with other amp plugins that tend to have an overly harsh top end.

### Post-Amp Compressor.



A go-to compressor for placing after unruly guitar amp chains with spiky transients, to even out their sound. Not always necessary, but helpful to have on-hand when it is. Simply set the *Target* which roughly corresponds to the desired lufs value, and set the *Aggression* of the behavior by ear.

Tip: sometimes modulation FX such as phasers can cause quite unpredictable peaking due to the way moving waveforms momentarily overlap, so may benefit from a *Post-Amp Compressor* placed after them.

### Guitaritis Clip-Limit.



Use it as the final output on your guitar track groups. It consists of two carefully-calibrated limiters placed in-serial.

Use the first macro control to increase the gain and the second to cap the output. Pushing it louder adjusts not only the level but also the character.

## The Thirty Stompers.

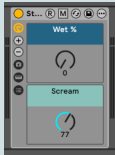
Make up your own custom pedalboards for guitar chains to individualize your tracks with all sorts of effects!



### ***Stomper 666 Drive.***

It's a complex distortion chain with a very focused result that hones in on 666Hz.

Use it for evil.



### ***Stomper 777 Drive.***

It's a complex distortion chain with a very focused result that hones in on 777Hz.

Use it for good.



### ***Stomper Booster.***

Boost pedal for adding raw gain with a bit of mid-range roughness.

Ideal for placing before or inside an amp + cabinet chain when your direct guitar signal is too weak. Also great for placing just before any distortion to stoke some extra fire underneath it.



### ***Stomper C-Delay.***

Creamy crisp chorused delay.

Turn up the "chorus" control to add modulated width to the delay repeats.



### ***Stomper Chomper.***

Analog-distorted chorus.

"Wrap your guitar in a crunchy liquid sheath."



### ***Stomper Chuggernaut.***

Provides a compansion/OTT-like effect focused on the low "chug" zone for guitars.

Turning up "Drive" pushes the dynamic timing parameters so that the sound begins to distort.



### ***Stomper Comper.***

Guitar compression stomp designed for increasing density within a pedal chain's signal path.



### ***Stomper Crisper.***

Dial in upper-mid crispness quickly and easily, with a touch of extra bite if desired. It focuses primarily on pulling up low-level material, filling out hidden details. Designed with electric and acoustic guitars in mind, but also reported to work well on vocals.



### ***Stomper D-Delay.***

Clean to lo-fidelity digital delay.

Older "age" will reduce the digital quality of the delay repeats.



### ***Stomper Dister.***

Four-stage distortion optimized for live guitar playing:  
1: *Clip*. 2: *Drive*. 3: *Limit*. 4: *Saturate*.



### ***Stomper Dualay.***

Dual ping-pong delay (4 delay lines total) set up to provide interesting rhythmic patterns.



### ***Stomper Flonger.***

It's a flanger effect. It's creamy and wooshy. Or, at high intensities and rates, "thwopy"???



### ***Stomper Fuzzer.***

Harmonic-rich fuzz optimized for live guitar playing.



### ***Stomper Gater.***

Gate optimized for live guitar playing when your signal is noisy.  
Generally you would want to place this before any other stomper pedal.



### ***Stomper Glitcher.***

Combines carefully-combined delay and beat repeat action for usable live guitar glitching fun.



### ***Stomper Muncher.***

Similar to the *Stomper Scruncher*, but this one is a bit heavier and tuned to an extended-fret electric guitar in drop-D.



### ***Stomper O'Dirt.***

Grungy overdrive optimized for live guitar playing.



### ***Stomper Phozzer.***

Curly, slimy phaser.



### ***Stomper PitchDelay.***

Generates synthesized delay lines based on the input pitch which can then be shifted upward or downward.



### ***Stomper Scruncher.***

Similar to the *Stomper Muncher*, this one is a bit softer and tuned to a standard electric guitar in E.



### ***Stomper Smevel.***

"Smooth Leveler". Use it as a volume pedal to drop volume with a smooth fade while being able to restore level quickly, for example when switching between background rhythm and foreground lead playing. It includes Macro Variations from 0dB in 3dB increments down to -18dB.



### ***Stomper Somber.***

Moody sculpted hall reverb for guitar.



### ***Stomper Sproing.***

Spring-Reverb "emulation"... it's not trying to be an exact reproduction of real spring reverb, but rather its own thing, a reverb made utilizing layered short delays with elements of source-reactivity.



### ***Stomper 'Stortion.***

Brutal distortion optimized for live guitar playing.



### ***Stomper Swamper.***

Digital stomp delay with stereo-widening and lo-fi effects.



### ***Stomper T-Delay.***

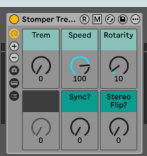
Lush modulated tape delay.

Lower "quality" will give a more retro-style filtering as well as increased pitch fluctuation.



### ***Stomper Toner.***

Sculpt the signal tone in-between other effects in your pedal chain. Includes a band-interactive tone stack EQ plus a low-cut filter to tighten the sound and a high-band variable filter for reducing harshness.



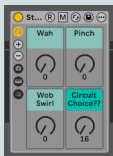
### ***Stomper Tremotary.***

Tremolo which morphs to a "3D" rotary effect. .



### ***Stomper Vibratorus.***

A modulation effect inspired by the Uni-Vibe, but not really. It has a phaser on one side and a chorus on the other, both slightly offset from being out-of-phase with each other and with their feedback controls further modified by optical- modeled supplementary oscillators.



### ***Stomper Wahmper.***

Map it to a MIDI foot pedal to use as a wah wah, with added controls for envelope and LFO modulation.

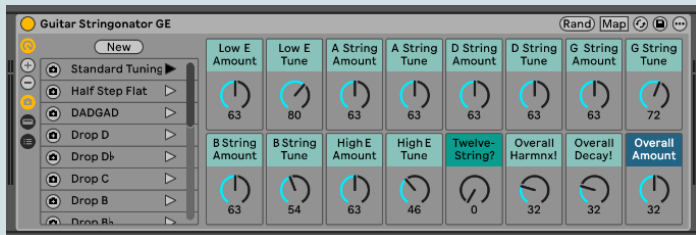
## The Special-Edition Racks.

These are racks that were scavenged and repurposed from existing PerforModule packs that seemed like they would be beneficial to have included in a suite of guitar-based effects.



### Electric Guitar Shimmer.

Mod of *Acoustic Guitar Shimmer* from the *Sweetie Pies* pack. A go-to for brightening up that sparkle of an electric strummed instrument. It adds tube, saturation, and glue to a slice of the upper-mid top end in an attempt to embellish brilliance without getting tinny-sounding.



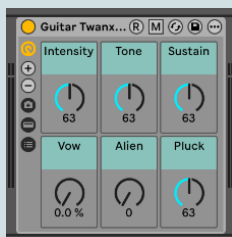
### Guitar Stringonator GE.

Adds precisely-crafted re-tuneable resonance for each guitar string. You can use it to make any instrument generate artificial sonorities, similarly to how guitar string and body resonances affect the overall tone.

There are a handful of variations for useful tunings.

Use subtly for mixing, or go over-the-top for sound design.

The original version is one of the oldest PerforModule effect racks created! This new edition is way more complex under the hood, including Corpus and Resonator instances coupled to every string.



### Guitar Twanxturizer.

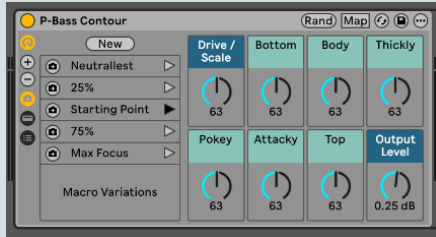
A mod of *Bass Texturizer* from the *PMX-308 Bases* instrument pack— this time designed and meant for adding a certain twangy texture to electric guitars.

It's not subtle, so perhaps use it early on as a design choice (rather than later on for mixing nuance).



### Leslee Rotary GE.

Convincingly emulates a vintage rotating organ speaker system, including dual rotation motors for separate woofer and horn speakers + realistic (to exaggerated) doppler effect. There is also an optional stationary reverb speaker. The parameters are modeled on actual classic physical organs. Originally from the *PMX-303 Organs* sound pack, this mod is optimized to always sound good on electric guitars, with a bespoke *Chug vs Crisp* macro.



### P-Bass Contour.

Tonal contour inspired by analysis of a P-style Bass.

Provides adjective controls to adjust various aspects of the tone in musical, intuitive ways. Great for all sorts of bass from bass synths to DI bass guitar, or maybe to make something that's not a bass sound more like a bass. Bass.

This mod from *Sweetie Pies* is designed for general-purpose P-Bass tone, rather than trying to match Mordgrim's tone exactly.



### Savvy Guitar Gate.

This gate is freaking awesome because it gates the post signal while listening to the pre signal. So if you place noisy guitar amps/compressors/etc. into it that tend to increase noise a lot, it will cut out that noise much more cleanly and immediately than just slapping a gate onto the back end will.

Once you try it you'll never use a typical gate on your guitar amp chains ever again!

This edition of *Savvy Gate* from the *Zingles* series includes a few "type" presets inspired by parameters from *Go-To Guitar Gates*.



### Robust Tuner.

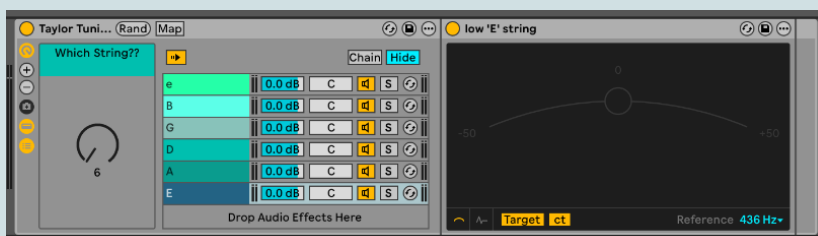
It combines **Auto Histogram** mode with **Classic Strobe** mode, and is great for really nailing that intonation at a glance.

On the left is *Histogram Mode*, with *Auto* display focusing in **Hz**. This can show you how steady your guitar note is **over time**, to see where the average of a held note lies and how much variance there is.

On the right is *Classic Mode*, with *Strobe* display focusing on current **cents** amount off, showcasing **moment-by-moment** tuning, providing simultaneous visual cues of color, movement, and text.

Seeing both at once = best of both worlds!

The *Tuning Frequency* knob ranges from 410 to 480Hz. You can type in values with decimal precision if you need to. If you unfold the Macro Variations panel, you can access a trendy 432 Hz preset (meh) or my personal fave: 444Hz.



### Taylor Tuner.

Allows disparate tuning for each guitar string. Make sure to click on each chain one at a time to check and tune each string individually.

Alternatively, for your own preferred per-string re-tuning schemes, it can serve as a quick starting point to implement & save them. Like for example, some people prefer to tune just their B and/or G strings slightly flat.

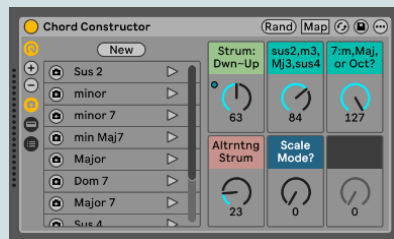
## The Thirty-Seven Guitar Chord Presets.



MIDI Chords based on guitar fingerings. The note played will be the lowest root note for the generated chord. For example, if you send an 'A' midi note through the *Em VII Chord* Preset, it will still play an Am chord, however using the same note interval arrangement as the chosen chord position would have. If you use Scale Mode, *scale degrees* will be selected instead of exact notes (which may change the resultant chord depending on the Current Scale).

### "Education Mode":

If you are a practicing guitarist, you can also use these for study, memorizing and incorporating them into your skillset.



## Chord Constructor.

Play single notes through with a polyphonic instrument to generate chords. Plucked-style instruments are recommended.

The choices have been deliberately contained to certain inversions that are more used on guitar, have a harmonious sound, and that are well-spaced for strumming patterns.

Use the selector switches to make a chord be Sus2, minor2, Major2, or Sus4, and to add in either type of 7th if desired.

So you could create sus2 or sus4 chords; minor or Major chords with a minor, Major, or no seventh; and even the odd and rarely-used but cool-sounding sus + seventh chords. Insinuate the edgy harmonic minor mode by using a minor chord + Major 7th, or the bluesy dominant seventh feel by using Major + minor 7th (which is quite common for guitar).

### Humanized.

Individual strings have a small chance not to be triggered with every strum, based on the up-vs-down angle.

### Alternating Strum!

A super sweet feature is *Alternating Strum* which lets you choose how much to modify the main dial back and forth from up- to down-strokes on every other triggered midi input. Try using it with a steady stream of repeated input notes.

### ...About Scale Mode:

While the *Chord Constructor Rack* was designed with Scale Mode being switched off in mind for its primary usage, you can also use it with it enabled, and it's just as cool— just different

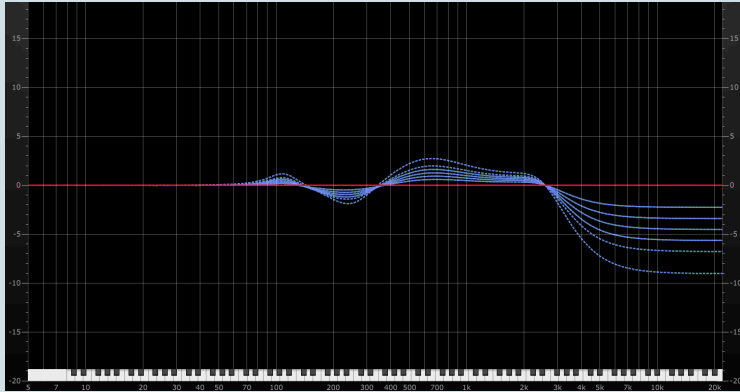
While **Off**, single notes will generate the chosen chord with intervals built from the chromatic note as root. So, like, if you play an F with minor 7 selected, it will play an Fm7, straight-up, no matter what.

When **On**, however, all out-of-key notes will be shifted into the current key, keeping everything strictly diatonic. In this mode you can take the Macro Variation titles with a grain of salt, as some tones may change and some root tones will become unavailable.

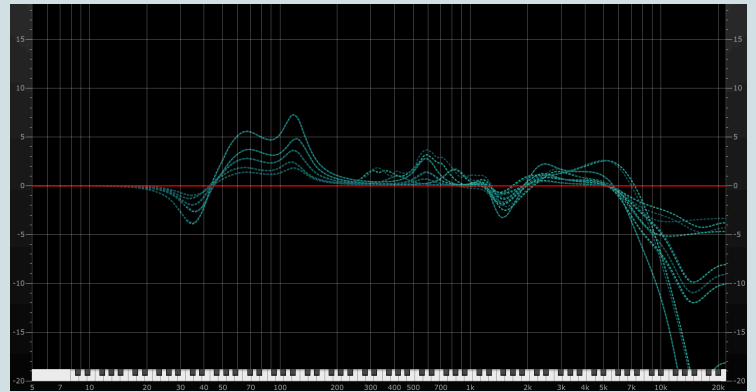
It's awesome for playing melodies bolstered with harmonies... or you could look at it as playing chords like melodies!

## Contour Graphs:

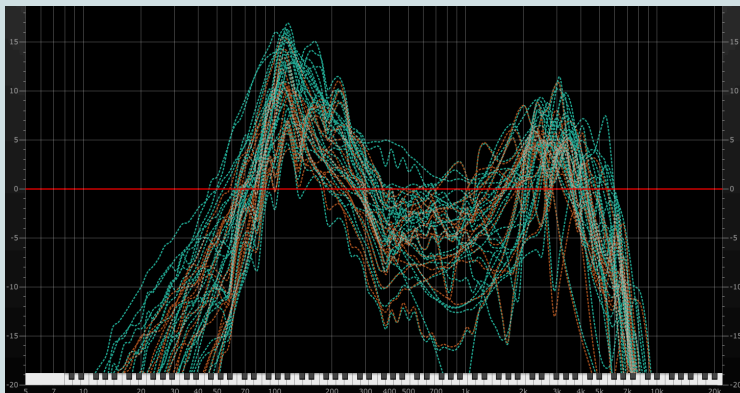
Herein we conclude the manual with some averaged frequency spectra of devices at various settings...



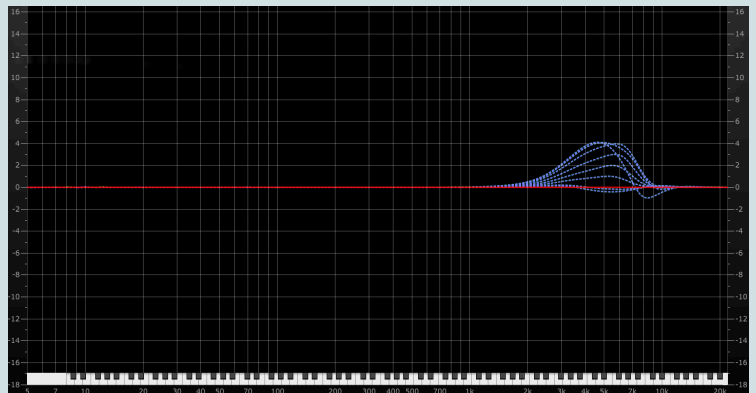
AbleAmp Toner



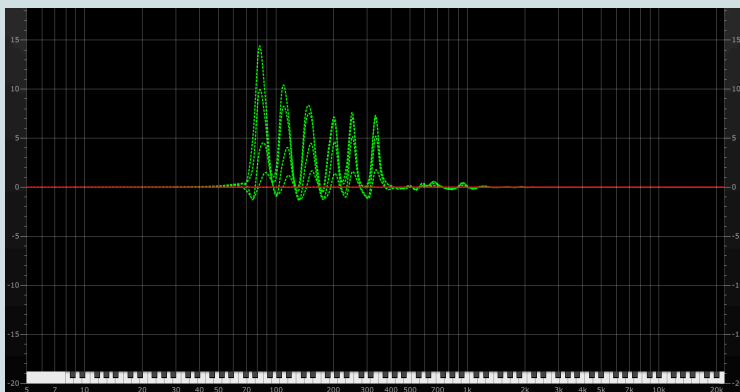
Cab Customizer



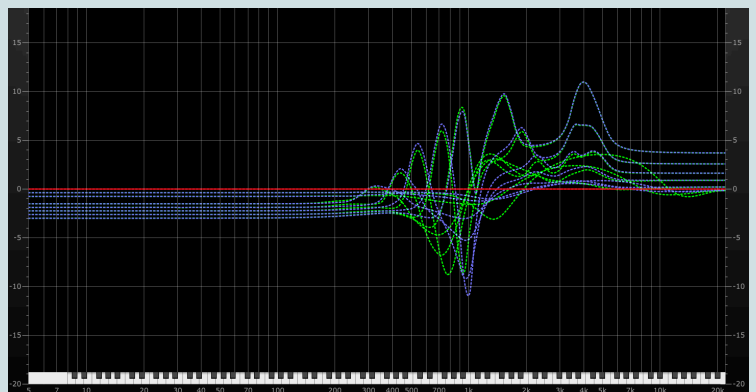
Combamps



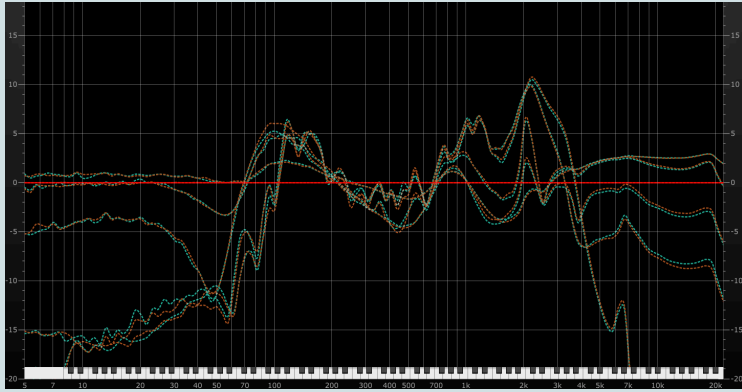
Electric Guitar Shimmer



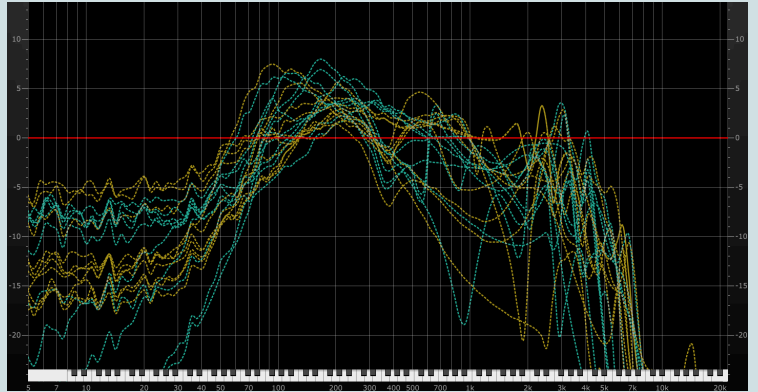
Guitar Stringonator GE



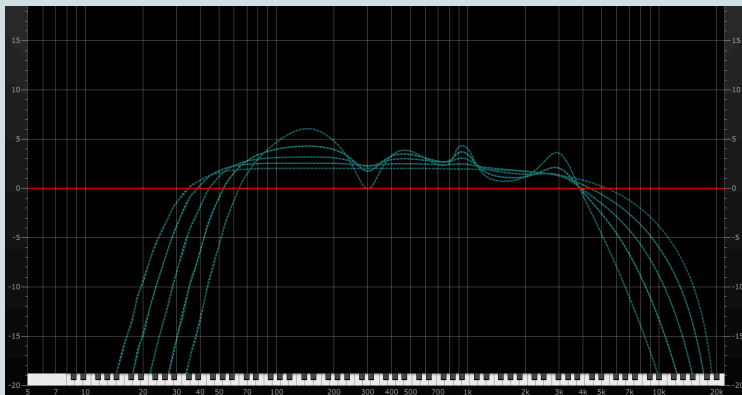
Guitar Twanxturizer



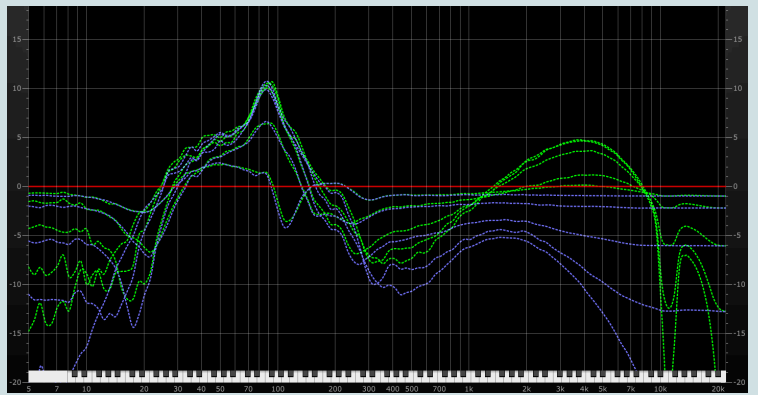
Leslee Rotary GE



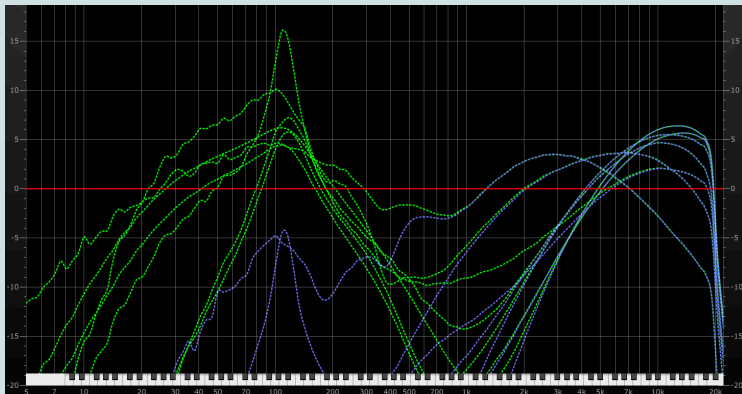
ParaCab



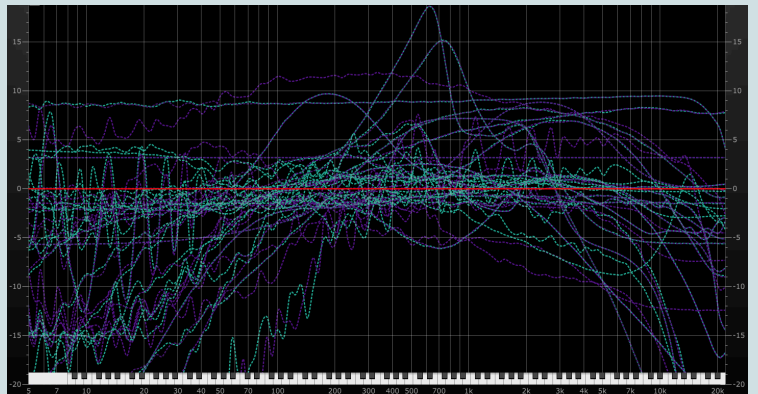
P-Bass Contour



Pitch-Down Amp



Splyt Amps



Stompers

