



SHURIKEN VARIAX

PILOT'S GUIDE ►

**MANUEL DE PILOTAGE
PILOTENHANDBUCH
MANUAL DEL PILOTO
パイロット・ガイド
新手指南**

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Introduction

The Shuriken Variax® guitar resulted from a collaboration between Shuriken™ Guitars, Line 6®, and Yamaha® Guitar Development. It is a modern, high-quality instrument featuring a unique body shape with contoured edges, a custom Line 6 mid-gain humbucker pickup, and all of the sonic versatility provided by Variax HD technology. Shuriken Guitars was founded by guitarist Steve “Stevic” MacKay of the heavy fusion band Twelve Foot Ninja.

The band’s songs often switch between different musical styles, sounds, and even tunings, to create a highly addictive soundscape like no other. If you ever wondered how the band’s guitarists manage to change from a single coil “funk” tone in standard tuning to a super-heavy humbucker in Drop A tuning right on the downbeat leading from the verse to the chorus, look no further than the Variax guitar. This guide will introduce you to basic capabilities of the Variax guitar and its custom tones designed by Steve MacKay.

Twelve Foot Ninja’s website can be found here: <http://twelvefootninja.com>.

What’s in the Box:

Shuriken Premium Gig Bag, Variax VDI USB Interface, 1 Lithium Ion Battery, Charger, Bridge Saddle Wrench, Truss Rod Wrench, and Pilot’s Guide

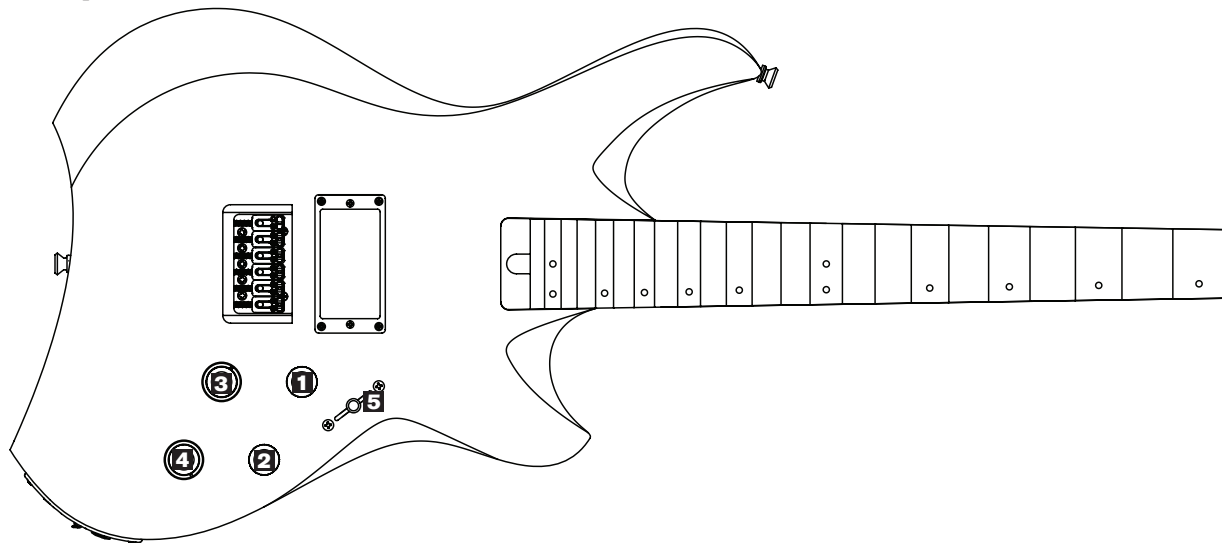
Specifications:

- Alder body and maple neck with Indian ebony fretboard
- 24 medium-jumbo frets
- Sealed locking tuners
- Fixed custom bridge with piezo saddles (for Variax processing)
- Single medium-output humbucker
- Volume, Tone, Model and Alt Tuning controls
- 5 way selector switch (for Variax model switching)
- ¼” and VDI (Variax Digital Interface) outputs
- Lithium-ion battery with up to 12 hours of play time

Weight: 7.5 lbs / 3.4 kg

Dimensions: 42” x 13.5” x 2” / 1070 mm x 345 mm x 50 mm

Basic Operation



- 1. Volume** - Adjusts the signal level output of your guitar.
- 2. Tone** - Adjusts the amount of high frequency pass through.
- 3. Guitar Model Selector** - Push in this knob (LED is lit) to access any of the eight preset Variax guitar model banks or one of four user definable model banks. When in Variax mode, the Guitar Model Selector LED will illuminate the active guitar model bank. There are actually 5 model presets per bank, as defined by the Pickup Selector Switch position. Press this knob again (LED is not lit) to use the magnetic pickups. The four User I, II, III, and

IV preset slots allow any combination of guitar model and alt tuning to be saved directly from the guitar. Please download the FREE Line 6 **Variax Workbench HD** software, available from line6.com/software, for creation of custom models. (See the *Variax Workbench HD Application* section of this Guide for more information.)

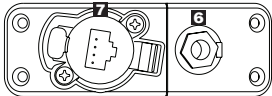
- 4. Alternate Tuning** - When in Variax mode, you can use the **Alternate Tuning Knob** to instantly access 10 pre-loaded alternate tunings on the fly. Missing your favorite tuning? No problem! You can store your own custom tunings here as well. More on that later.

Be sure you amplify your signal enough to drown out the natural acoustics of your guitar or you might hear some odd modulations from it blending with the amplified sound.

When set to **MODEL** your Shuriken Variax guitar's tuning is determined by the current guitar model and **Pickup Selector Switch** position. You can assign alternate tunings to any guitar in the **Guitar Model Selector** banks using the Line 6 **Variax Workbench HD** software.

To bypass the Alternate Tuning feature, simply set the **Alternate Tuning Knob** to **STANDARD**. In Standard mode, every Variax model will play in standard tuning, provided the guitar is physically tuned to standard, including any alt-tuned models that were saved to a user preset slot. All tuning presets saved on this knob were relative to standard EADGBE tuning, with the exception of those saved with the models in the USER I, II, III, IV, and Shuriken banks. More on this later.

- 5. Pickup Selector Switch** - Since there is only one magnetic pickup installed on the guitar, the pickup selector switch has no influence over the sound from the pickup. In Variax mode this switch has unique properties for each model. Check out **The Guitars of Variax** section for details.

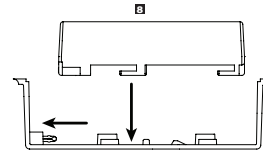


- 6. Analog Output** - Plug in a standard 1/4 inch guitar cable here.

- 7. VDI Digital Output** - For connecting to Line 6 hardware that offers a Variax Digital Interface (VDI). Only connect a Line 6 Variax digital cable to this output.

Note: If connecting to the supplied Line 6 Variax VDI USB interface, you will need to have a charged battery within the guitar. Plug a 1/4" cable into the guitar to enable the Variax electronics to power on. If connecting to a Line 6 Helix®, POD® HD, or Firehawk® device, power will be supplied via the VDI, thus, no battery is required. Helix devices

can also act as an interface for Workbench HD, but not as an interface for the Line 6 Monkey™ application. POD HD can act as an interface for both Workbench HD and Line 6 Monkey applications. Firehawk devices cannot be used to communicate over USB to a connected Variax guitar.



- 8. Battery Compartment** - Installation as shown. Please fully charge the included lithium ion battery in its charger prior to your first use. A fully charged battery will give you a maximum of 12 hours of operation. Press the **Battery Check button** for a quick reference of remaining battery life:

4 LEDs = 9+ hours

3 LEDs = 6+ hours

2 LEDs = 3+ hours

1 LED = less than 3 hours

1 LED Blinking = less than 1 hour, recharge battery

When using the supplied, external battery charger - The solid red LED on the charger unit indicates that the battery is charging. A blinking red LED means that either the battery is fully charged, or the battery was inserted improperly into the charger. If you know the battery needs charging and you are seeing a blinking red LED while in the charger, please re-seat the battery in the charger.

Note: It is also possible to supply power to your Variax without a battery. When connected to VDI digital input-equipped hardware, such as a Line 6 Helix or POD HD device, power is supplied via this connection. You can also power the guitar through the 1/4 inch Analog Output jack using the Line 6 XPS A/B Power supply and 1/4 inch TRS cable in the Variax Cable Power Kit (P/N: 98-034-0105).

The Guitars of Variax

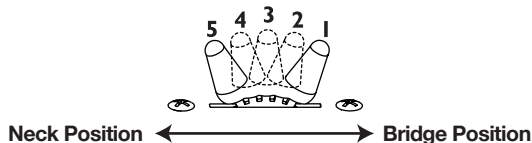
Each Variax model bank has five different models available—one at each position of the **Pickup Selector Switch**. These five models may all be based on the same guitar, two or three similar guitars, or, each model may be based on an entirely different instrument.

You'll find more information about each model below. For electric models, the **Volume** and **Tone** controls work like the ones found on the instruments we modeled. Rolling off the volume, for instance, will typically result in a slightly darker sound. The output level of each model is based on the modeled instrument. Models with humbucking pickups, for example, will tend to be louder than those with single-coils.

For acoustic models, the **Volume** control acts as a simple level control. Since acoustic guitars don't have tone controls, we decided to let you shape the tone of these models by changing the position of a modeled microphone using the **Tone** knob. Give it a spin to explore a varying range of tonal flavor for each model.

Pickup Position Numbering

We've numbered the **Pickup Selector** positions in this Guide starting with "bridge" (the position toward the bridge) as 1. Moving the pickup selector from there, you go through positions 2, 3, and 4 on your way to the "neck" position (the position toward the neck), which we label as number 5.



User I – IV

In the words of Steve MacKay, founder, guitarist and producer of Twelve Foot Ninja:

These banks contain models I frequently use in Twelve Foot Ninja. Each bank offers a selection of presets that I may use in different parts of the same song. You will notice that there are a lot of identical guitars set to different tunings; this is because I often switch tunings without changing the guitar, amp or effect settings. This "secret weapon" enables me to change the tuning of the guitar to make playing the riffs easier. Some might read that and say, "That's cheating!" My response would be: "Is it cheating to use a fork instead of your hands when you eat spaghetti? Is it cheating to use spell check instead of a dictionary? Of course it isn't!" Make no mistake my friends, you still need to be able to nail it - it's just now you have some new tools.

The Variax guitar offers a revolutionary way to tackle previously non-compromising issues like how to go ballistic on stage whilst maintaining accuracy. The answer is to bend the guitar to your will and imagination, and not be bound by the inflexibility of traditional guitars.

You may notice that I don't really mess with crazy pickup combinations too often. In complexity, I like to keep things simple. I pretty much use 3 guitar sounds: heavy, clean and acoustic and each category may have a few varied configurations. For example, the guitar for the chorus of our song, 'Invincible' uses a Dave Grohl-esque model tuned to E, B, E, B, E with 3 different volume settings on each string to bring out the colours of the OPEN chords I wanted to emphasize - that is some serious wizard, Jedi stuff to be able to do! Knock yourselves out.

I usually keep the guitar physically tuned to Drop D (D,A,D,G,B,E) because I prefer how it sounds with the modelled tuning. If you want to replicate my setup you will have to tune the low E string down to D, which will make my custom tunings sound correct in the **USER** and **SHURIKEN** banks. None of the other banks contain tuning offsets and assume that the guitar is tuned to standard E. If you want to load my presets with their respective custom tunings, make sure to set the **Alternate Tuning Knob** to the **MODEL**

position. If all that is a bit too much ninja for you, feel free to keep the guitar in standard E and set the **Alternate Tuning Knob** to **STANDARD** or any of the other tuning presets.

Lastly, why on earth did I call the first four banks **User I** through **User IV**? Because it's up to YOU to go in, get creative, design your own presets and realize a newfound musical freedom that would not be possible without the Variax guitar. Go ahead and become best mates with the Workbench HD app – you will not regret it!

USER I

All custom tunings saved with these presets require the low E string tuned down a whole step to D, and that the **Alternate Tuning Knob** is set to **MODEL**.

Position 1: Post Mortem Spank

Spank guitar body with Spank pickups and drop D tuning (sounds D A D G B E) – Note that the two lowest strings are muted.

Position 2: 8 Collateral

Neutral body with JTV89 pickups and very special custom tuning (sounds D A A A A A) – Note that low E and A strings are tuned down one octave.

Position 3: 7 Collateral

Neutral body with Lester pickups and another very special custom tuning (sounds A E E E E E) – Note that the physical “A” string (tuned to E) is muted.

Position 4: Collateral Aco

Acoustic J body with DADGAD tuning (sounds D A D G A D).

Position 5: Collateral Spank

Spank body with Spank pickups and DADGAD tuning (sounds D A D G A D).

USER II

All custom tunings saved with these presets require the low E string tuned down a whole step to D, and that the **Alternate Tuning Knob** is set to **MODEL**.

Position 1: Octave Standard

Neutral body with JTV89 pickups and standard tuning down one octave (sounds E A D G B E).

Position 2: B Standard

Neutral body with Lester pickups and everything tuned down a fourth (sounds B E A D F# B).

Position 3: Standard

Neutral body with Lester pickups and standard tuning (sounds E A D G B E).

Position 4: Acoustic Standard

Acoustic D body with standard tuning (sounds E A D G B E).

Position 5: Spank Standard

Spank body with Spank pickups and standard tuning (sounds E A D G B E).

USER III

All custom tunings saved with these presets require the low E string tuned down a whole step to D, and that the **Alternate Tuning Knob** is set to **MODEL**.

Position 1: Tumbi

Lester's Banjo with a custom tuning (sounds D A D G B A). Note that all strings except the high A are muted.

Position 2: 7 Sick Riff

Neutral body with Lester pickups and a custom tuning (sounds A E A E F# B).

Position 3: Invincible Aco

Acoustic D body with a drop D tuning (sounds D A D G B E). Note that the two lowest strings are muted.

Position 4: Invincible Chorus

Special Bird body with Lester pickups and a custom tuning (sounds E B E B B E) – Note that the “D”, “G”, and “B” strings are set to 20% of normal volume, high E string set to 90% of normal volume.

Position 5: Invincible G

Neutral body with JTV89 pickups and a custom tuning (sounds G D F# A A A).

USER IV

All custom tunings saved with these presets require the low E string tuned down a whole step to D, and that the **Alternate Tuning Knob** is set to **MODEL**.

Position 1: Acoustic DADGAD

Acoustic D body with a DADGAD tuning (sounds D A D G A D).

Position 2: Acoustic Drop D

Acoustic D body with a drop D tuning (sounds D A D G B E).

Position 3: Drop D Octave

Neutral body with JTV 89 pickups and a drop D tuning one octave lower (sounds D A D G B E) – Note that all strings except the lowest “D” string are tuned down one octave.

Position 4: Drop A

Neutral body with Lester pickups and a drop A tuning (sounds A E A D F# B).

Position 5: Drop D

Neutral body with Lester pickups and a drop D tuning (sounds D A D G B E).

SHURIKEN

In the words of Steve MacKay, founder, guitarist and producer of Twelve Foot Ninja:

All of the models included in the Shuriken bank are my go-to tunings and models. There are guitars in standard tuning, 7 string standard tuning, 8 string standard tuning, acoustic standard and DADGAD tuning. Just to get everyone started, ninjafied and ready to question why you never used this guitar earlier! As with the User banks above, the custom tunings only work correctly if the low E string is tuned down to D and the **Alternate Tuning Knob** is set to **MODEL**.

Position 1: Drop D Octave

Neutral guitar body combined with JTV 89 pickups and everything tuned down one octave (sounds D A D G B E).

Position 2: Tone Down Acoustic

Acoustic D body with a custom tuning (sounds C G C F A D).

Position 3: Drop A

Neutral guitar body with Lester pickups and everything tuned down a fourth (sounds A E A D F# B).

Position 4: Shuriken Spank

Spank guitar body with Spank pickups and drop D tuning (sounds D A D G B E) – Note that the two lowest strings are muted, and the D string is set to only 4% of normal volume.

Position 5: Shuriken

Spank guitar body with Spank pickups and a special custom tuning (sounds B F# B C# B C#).

T-MODEL



Based on* 1960 Fender® Telecaster® Custom

Leo Fender's Telecaster, originally known as the Broadcaster, was the first commercially successful solidbody electric guitar and has been in continuous production for over fifty years.

Position 1: Bridge, **Position 2:** Widerange Humbucker Bridge,
Position 3: Bridge + Neck, **Position 4:** Widerange Humbucker Neck,
Position 5: Neck

SPANK



Based on* 1959 Fender® Stratocaster®

The curvaceous Stratocaster is further evidence of the genius of Leo Fender. Considered a radical departure at its introduction in 1954, the Stratocaster influenced electric guitar design more than any other single instrument and its distinctive comfort-contoured body, bolt-on neck, and versatile electronics have become industry standard features. Our model takes one slight liberty; unlike the modeled instrument, the tone control works on the Bridge pickup, too. We trust that Leo won't mind.

Position 1: Bridge **Position 2:** Bridge+Middle, **Position 3:** Middle
Position 4: Neck+Middle **Position 5:** Neck

LESTER



Based on* 1959 Gibson® Les Paul® Standard, 1955 Gibson Les Paul Special and 1976 Gibson Firebird® V

The Les Paul Standard guitar was the first Gibson solidbody electric design, and was a collaboration with popular guitarist and recording pioneer Les Paul. Unlike the easy-to-manufacture Fender designs, the Les Paul retains the carved top and set neck construction of their hollowbody models. The original series was a commercial failure, however, and was discontinued in 1961. The resulting resurgence of popular interest led to its reintroduction in 1968.

The Les Paul Special was added to the Les Paul line in 1955 as an intermediate step between the utilitarian Junior and more luxurious Standard. The greater tonal options made possible by the second P-90 helped make the Special a favorite of reggae legend Bob Marley. Our model is based on the original single cutaway version.

The Gibson Firebird, introduced in 1963, was created with the help of Detroit automobile designer Ray Dietrich. Neck-through construction and Epiphone® style mini-humbuckers gave the Firebird a unique combination of good sustain and a biting, trebly sound—characteristics which made it a favorite of blues slide guitar legend Johnny Winter.

Position 1: Les Paul Bridge **Position 2:** Firebird Bridge
Position 3: Firebird Neck **Position 4:** Special P90 Bridge
Position 5: Les Paul Neck

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ACOUSTIC



Position 1 based on* 1959 Martin® D-28

The D-28 is generally considered the definitive Martin flat-top. The Dreadnought (or “D”) body combined with rosewood back and sides produces a full sound ideal for flatpicking.



Position 2 based on* 1970 Martin D12-28

In 1970, Martin added 6 more strings to the successful D-28 to capitalize on then-current folk music trends.



Position 3 based on* 1967 Martin O-18

The smaller “parlor” sized body with mahogany back and sides has a balanced tone ideal for fingerstyle playing.



Position 4 based on* 1966 Guild® F212

The Guild Jumbo-bodied 12-strings offered players the elusive combination of volume and clarity. We’ve modeled the F212 with mahogany back and rims.



Position 5 based on* 1995 Gibson® J-200

Easily identified by its impressive size and ornamentation, the J-200 was often seen played by flashy country and western artists and was a later favorite of Elvis Presley.

JAZZ



Based on* 1961 Gibson ES-335, 1964 Epiphone® Casino, 1954 Gibson ES-175 and 1953 Gibson Super 400

The semi-hollow Gibson was conceived as a blend of the tone and sustain of a solidbody with the balance and aesthetics of a hollowbody. The “woody” tone of these guitars made them popular with Jazz artists like Larry Carlton and Blues greats like B. B. and Albert King. Our model is based on a 1961 dot neck, with P.A.F. pickups and a stop tailpiece.

Gibson acquired former rival Epiphone in 1957 and began producing Epiphone guitars in its Kalamazoo factory. John Lennon was particularly fond of the Casino, and continued to record with it long after the breakup of the Beatles. The Casino features P-90 pickups.

Gibson added a sharp “Venetian” cutaway and a fancier fingerboard to the budget ES-125 model to create the ES-175. With the addition of a second P-90 pickup in 1953, this quickly became a popular and enduring choice for jazz guitarists.

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By the end of the 1940s, changing musical styles found premium archtops like the Super 400 to be lacking in volume. By simply adding the pickups and controls developed for its early electric guitars, Gibson created the electric version of the Super 400 in 1951. Our model is based on the version with P-90s. Check out Scotty Moore (and Elvis) playing the Super 400 in the '68 Comeback Special.

Position 1: Jazz Super Four Bridge **Position 2:** Casino Neck **Position 3:** ES335 Neck **Position 4:** Jazz Super Four Neck
Position 5: Jazz Seventy Five Neck

WORLD



Position 1 based on* 1935 Dobro® Model 32

Though the Dobro is generally a wood-body instrument, this model is based on an unusual specimen with an all-aluminum body that emphasizes midrange.



Position 2 inspired by* the Coral Sitar

The Coral Sitar offered guitarists the ability to get the buzz and drone of a sitar without having to learn a new instrument. On this model, the tone control changes the level of the drone strings.



Position 3 based on* 1999 Jerry Jones Shorthorn®

In the 60's Danelectro managed to make great sounding guitars from Masonite and lipstick tubes. In the 90's Jerry Jones continued that tradition with the same materials as their 60's counterparts. Our model is with the bridge and neck pickups active.



Position 4 inspired by* the Gibson Mastertone Banjo

The Mastertone series was introduced in 1925 and quickly became the definitive Bluegrass banjo.



Position 5 based on* 1928 National Tricone.

The Tricone uses three, 6-inch cones, mechanically coupled to the bridge to amplify string vibrations. The Tricone has a smoother sound than later, single-cone resonators.

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TWANG



Based on* 1959 Gretsch® 6120 and 1966 Rickenbacker® 370

The 6120 was the first of several models that Gretsch developed with country guitar whiz Chet Atkins. The 6120 is usually associated with the “twangy” sounds of players like Duane Eddy, Eddie Cochran, and Brian Setzer. Our model is equipped with Filtertron hum-canceling pickups.

Though overshadowed by the success of the 12 string, the 6 string versions of these stylish Rickenbacker models continue to be popular with players looking for something a bit out of the ordinary, like Ed O’Brien of Radiohead.

Position 1: Gretsch Bridge **Position 2:** Gretsch Bridge + Neck

Position 3: Gretsch Neck **Position 4:** Rickenbacker Bridge

Position 5: Rickenbacker Neck

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Coral Sitar and Jerry Jones Shorthorn are registered trademarks of Jerry Jones.

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Build A Custom Guitar

To really take advantage of the range and versatility of Variax mode, especially when performing, you’ll want immediate access to your essential sounds. To get your twenty favorite tones ready for instant recall, use the four user banks on the **Guitar Model Selector** knob. Each of these can store a different set of five of your favorite guitar models, as well as tone and alternate tunings (with **Alternate Tuning Knob** set to **MODEL**). You could, for instance, put your favorite electric sounds with standard tuning in **USER I**, the same electric sounds and drop tuning in **USER II**, and acoustic sounds in **USER III**. There are no limits.

Let’s say you found a sound that you know you’ll be coming back to again and again. Here’s what you do to store it in one of the custom banks:

1. Be sure your sound is exactly as you want it. This process is going to store the guitar model and tone knob settings.
2. Press and hold the **Guitar Model Selector** knob for 2.5 seconds, or until the LED begins to blink, to enter customization mode.
3. Now turn the **Guitar Model Selector** to your choice of one of the **USER** positions. The Alternate Tuning LED is no longer lit.
4. Move the **Pickup Selector Switch** to the desired position where you want to store your current tone.
5. To save an alternate tuning to this position, select the desired tuning on your **Alternate Tuning Knob**. Skip this step if you do not want an alternate tuning.
6. Press and hold the **Guitar Model Selector** knob for 2.5 seconds. Presto! You just saved your first guitar model to a custom bank! Don’t forget to set your **Alternate Tuning Knob** to **MODEL** if you want to recall the tunings exactly the way you’ve saved them.

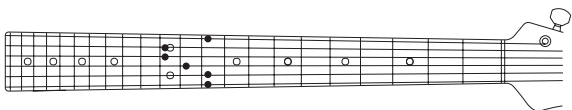
Creating Custom Alternate Tunings

The Alternate Tuning feature of your Variax guitar is a very powerful tool. While we've given you 10 common tunings to choose from on the **Alternate Tuning** knob, we know some of you will still wish for even more, such as using this feature to replace your capo. Have no fear, we've got you covered. You can replace all but the **MODEL** and **STANDARD** setting on the **Alternate Tuning** knob with your very own creations. Here is how you do it.

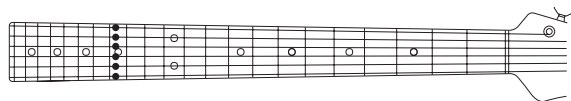
1. Make sure your guitar is tuned to a standard tuning (with a 440Hz reference) with the **Guitar Model Selector** set to any 6 string guitar model.
2. Press and hold the **Guitar Model Selector** knob for 2.5 seconds, or until the LEDs begins to blink, to enter customization mode.
3. Select the position you'd like to replace on the **Alternate Tuning** knob. **Note:** If it's already there you need to move the knob away and back so that customization mode knows you want to modify a tuning. Only the **Alternate Tuning** LED will now flash.
4. Create new alternate tunings by playing one note at a time on each string you wish to change. Customization mode sees the 12th fret as the 0 fret (or nut).

For example, playing a note at the 10th fret will tune that string down a whole step, while playing a note at the 14th fret will tune it up a whole step from standard. Be sure to mute strings carefully as you assign tunings across the neck - any mishaps could reassign the tuning. You can also play all notes at once if you can fret them cleanly.

Here is an example of the notes you'd play for an open D tuning:



Here are the notes you'd play if you wanted a 'capo' on the 3rd fret (G).



5. Momentarily press and release the **Guitar Model Selector** knob to enter audition mode. Try out your tuning. If it sounds right, proceed to step 6. If you need to make an adjustment, momentarily press and release the **Guitar Model Selector** and return to step 3, or turn your **Alternate Tuning** knob to abort alternate tuning customization.
6. Press and hold the **Guitar Model Selector** knob for 2.5 seconds, or until the **Alternate Tuning** LED stops blinking, to save your new tuning.

Variax Workbench HD Application

The Line 6 **Variax Workbench HD** software application is available free from line6.com/software. Use the Workbench HD application with your Variax instrument to create custom model presets, including any combination of body, pickups, tunings, and other settings, and store them within any of the 60 Guitar Model preset locations. You can also create your own custom tunings to be saved within the 10 Alternate Tuning preset locations.

Workbench HD can also be used as a librarian to backup and restore presets, banks, or entire guitar bundles, as well as export such files to share with other Variax users. For more information, please see the **Variax Workbench HD Pilot's Guide**, available at line6.com/support/manuals.

If you prefer video instruction, please see the following online video tutorials covering the Line 6 Variax and Variax Shuriken guitars.

Line 6 Movies:

<https://www.youtube.com/Line6Movies>

Line 6 Support:

<https://www.youtube.com/Line6Support>

Shuriken Guitars:

<https://www.youtube.com/ShurikenGuitars>

Factory Reset Options

A factory reset on the Shuriken Variax guitar will not be necessary under most circumstances. If you do need to perform a full firmware reset, it is important to note that this may result in the Variax guitar's model and alternate tuning knobs not reflecting the correct states. To correct this issue, you will need to run the Line 6 Workbench HD software and manually restore factory settings from the Shuriken Variax Factory Reset Bundle, as instructed below.

To Reset Firmware Only

Using the supplied Variax VDI USB interface, connect your Variax guitar to your computer. Please ensure that the Variax battery is charged and inserted, and plug in a 1/4" short patch cable or headphone adapter to engage the battery. Check that both lights are green on the VDI USB interface throughout the entire process.

Launch the **Line 6 Monkey** software (available free at line6.com/software). Within the Line 6 Monkey app, select **Flash Memory** for your Shuriken Variax guitar and click on **Reinstall Latest** (or **Update Selection**, if an update is available). Line 6 Monkey will prompt you to keep existing patches. Clicking **Yes** will reset the Shuriken Variax guitar's firmware, without altering the current model and tuning settings. Clicking **No** will restore the guitar to the default, non-Shuriken Guitar Model presets and Shuriken Alternate Tuning presets. In order to restore the factory Guitar Model presets, please use the following steps.

To Reset Guitar Model and Alternate Tuning Selectors:

If you want to restore Shuriken Variax defaults for model and alternate tuning selectors, you can do so via the Line 6 Variax Workbench software. Using the supplied VDI USB interface, connect your Variax guitar to your computer.

Please ensure that the Variax battery is charged and inserted, and plug in a 1/4" short patch cable or headphone adapter to engage the battery. Check that both lights are green on the VDI USB interface throughout the entire process.

Download the Shuriken Variax preset bundle from <https://line6.com/variax-modeling-guitars/resources/>. Launch the Workbench HD application, go to the **File** menu and click on **Open Bundle**. Select the Shuriken Variax bundle that you downloaded from within the dialog box and click **OK**. Click on the **Upload All** button in the upper left hand corner of the Workbench HD application. Once the upload is complete, the model presets will be reset to the Shuriken factory settings.

In addition to the factory reset above, reset the Alternate Tuning Knob to the factory tuning presets by performing the following steps in the Workbench HD app:

Select the **Strings** tab, click **Manage**, and load the appropriate **User Alt Tuning Preset** that corresponds to the following table, if available, onto the **Guitar Alt Tuning Preset** by clicking each of the appropriate locations and clicking the double left arrow.

Alternatively, if the tunings from the table are not listed in the User Alt Tuning preset list, you can create them in Strings tab in accordance with the following table, click Save, name the tuning, and then follow the previous steps.

Listed in the following table are the **Factory Default Alternate Tunings** loaded in the Shuriken Variax guitar (assuming the physical tuning is EADGBE). Note: the STANDARD tuning location cannot be changed:

Shuriken Variax Factory Alternate Tunings	
Name	Tuning Description (from low to high string)
STANDARD	E A D G B E
USER I	D A D G A D
USER II	E B E B B E
USER III	E A A A A A
USER IV	B E E E E E
1 DOWN	D G C F A D
2 DOWN	C F B ^b E ^b G C
DROP C	C G C F A D
BARITONE	B E A D F [#] B
DROP A	A E A D G B
OCTAVE	E A D G B E