VARIAX WORKBENCH HD

PILOT'S GUIDE ▼

MANUEL DE PILOTAGE
PILOTENHANDBUCH
PILOTENHANDBOEK
MANUAL DEL PILOTO
取扱説明書

©2014 Line 6, Inc.

Welcome

Welcome to **VARIAX WORKBENCH HD**, the world's only Virtual Custom Shop for Guitars - made possible by the unique modeling technology in your Variax! It lets you dive deep into your guitar's sonic potential and build your own unique guitars by customizing the body and pickup combinations to your heart's content.

Getting Started

Before you begin your first Workbench HD editing session, you'll need the following:

- The Variax Digital Interface that came with your guitar (to connect your Variax to your computer via USB).
- A fully charged Variax battery and a 1/4 inch guitar cable (plug your cable into your Variax to power it up).
- Headphones, a guitar amp or a playback system (to monitor your guitar's output).
- An internet connection (to complete the steps below).

Run The Monkey

With all the above set up and ready to go, your first order of business will be to run the Monkey, to make sure your software and device firmware is up to date. Complete the following steps via the internet:

1. If you don't already have it, download **Line 6 Monkey** from the **Downloads** page at **LIne6.com**.
2. Run the **Monkey**, download the latest **Line 6 Audio/MIDI Driver**, then connect your Line 6 device.
3. If **Line 6 Monkey** indicates you need the latest version of firmware for your Line 6 device, install it.
4. With your device up to date, plug in your guitar and make sure it has the latest firmware installed.
5. Make sure you have the latest version of the **Workbench HD** software; if not, update it.
6. With your software and device firmware up to date, quit **Line 6 Monkey** and launch **Workbench HD.**

Overview

If you'd like to dive right into a Workbench HD editing session at this point (and bypass the fine details about Workbench HD's features and functionality for now), the following is a brief overview of your typical workflow. In most cases, you'll launch Workbench HD with your Variax connected, then edit the existing models in your guitar, which will automatically be loaded into the Model List when you launch the application.

Your typical workflow will go something like this:

- Launch Workbench HD with your Variax connected; your guitar's models will populate the **Model List** automatically.
- Scoll the **Model List** and select a preset you'd like to edit, or one you'd like to use as the basis for a new preset; double-click its name to load it into the **Edit Window**.
- Experiment with different pickups, and drag them into the desired position on the guitar body.
- Adjust **Pickups** settings, including your **Pots** values, **Levels** and **Wiring** options.
- Experiment with different guitar bodies using the **Body Carousel** or **Body** drop-down menu.
- When you find a combination of body and pickups that you like, explore various alternate tunings by selecting the **Strings** tab and using the **Tuning** UI, or try some **Parallel Pitch** effects.
- Move your new preset to a new location in the **Model List**, or **Save** it to your computer for future recall.
- If you've created an alternate tuning you'd like to use often, transfer it to your Variax guitar by clicking the **Manage** button under the **Tuning** tab and save the tuning to your Variax's **AlternateTuning Roller**.
- End the session by replacing one or more models in your Variax with your newly edited Workbench HD models; to do this, select them in the **Model List**, then click on the **Upload to Variax** button.

Of course, once you get familiar with Workbench HD, you'll develop your own personal workflow. With all the bodies, pickups, the ability to tweak your settings, create alternate tunings, and save your creations for future recall, the possibilities are endless. For now, if you'd like to try building a model from scratch, here's how:

Building A Custom Variax Model

Follow these simple steps to build a custom Variax model from scratch, combining any Workbench HD guitar body with pickups, settings, and tunings of your choice. In this example, we'll also set up an alternate tuning:

- Select a body from the **Body Carousel** (or the **Body** drop-down menu); Lester Flametop, for example.
- Click on the **Pickups** tab, then click the **Bridge** button; load **Lester Bridge** from the **Pickup** menu.
- On the guitar body, drag the pickup into various positions until you find a sound you like.
- Click on the **Strings** tab and enable the **Tuning** button; now set up a low B alternate tuning by clicking the **Pitch** arrows to tune your strings to B F# B E A E (low to high).
- From the **FIle** menu, select **Save Preset As...** and name your Low B preset. If you want to load it into your Variax, drag it to the desired location in the Model List, then click the **Upload to Variax** button.

Offline Mode

When your Variax isn't connected to your computer, you can still use Workbench HD in **Offline Mode**. All the information in this Pilot's Guide applies to Offline Mode, except for saving and loading to and from your Variax.

Simply launch the Workbench HD application, use the **File** menu to open a single Preset, a Bank of Presets, or a full Bundle, then edit your Variax presets as usual. Of course you won't hear them without your Variax.

Offline mode can be useful, however, for organizing your presets or setting up tunings for various models. When you're finished with your session, simply save the results to your computer for future recall.

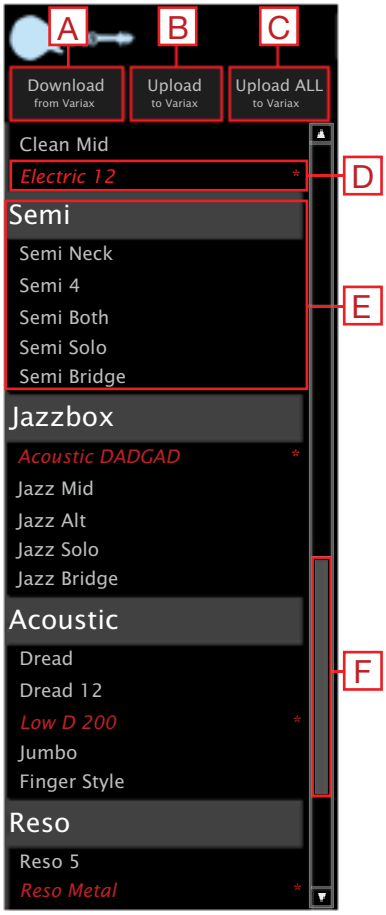
Local Tones

When **Workbench HD** launches, it will pull a copy of the complete set of models from your Variax and show them in a **Model List** on the left side of the app window. This list is essentially a "scratch pad" that tracks any changes you make to the models or their order without altering the tones saved in your Variax.

A When you click the **Download from Variax** button, all models that are selected in the Model List are downloaded from the Variax.

B The **Upload to Variax** button updates the memory in the Variax for only the models that are selected in the Model List.

C The **Upload ALL to Variax** button updates the memory in the Variax to match the Workbench HD scratch pad.



D When a model has been edited in some way, its name is displayed in red text with an asterisk.

E The Model List consists of 12 banks, matching the Variax Model Selector knob, with 5 models listed per bank.

F Use the scroll bar to view all the models in the Model List.

Automatic Backups

When you first launch Workbench HD, it creates an automatic **Variax Backup** bundle of your Variax model set and stores it on your computer in the **Line 6/Tones/Workbench HD** directory. That way, you'll have a copy of your pre-edited Variax model set in case you want to revisit one or more models in their pre-edited state.

Similarly, every time you press the **Upload ALL to Variax** button to upload the Workbench HD Model List into your Variax, Workbench HD creates an automatic **User Backup** bundle of the Model List, which includes all the edits you've made during your current edit session, and stores it in the same Workbench HD directory.

Organizing Your Model List

In the Model List you can copy and paste or drag and drop any model (or models) into any position in the list. Here's an overview of drag and drop how-tos when working with your presets in the Model List:

Single Preset:

- Reorder (within bank): drag source to target (highlight is automatically displayed between presets); other presets reorder accordingly.
- Replace (within bank): Ctrl + drag source to target (**Windows**); Option + drag source to target (**OS X**); target is replaced, source patch remains unchanged.
- Replace (in another bank): drag source to target; target is replaced, source patch remains unchanged.
- Transpose: Shift + drag source to target; target and source patches switch places.

Bank Of 5 Presets:

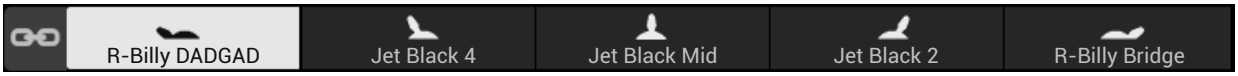
- Replace: drag source bank header to target bank header; replaces all patches in target bank with source bank patches.
- Transpose: Shift + drag source bank to target bank; all patches within each bank switch places.

Editor

The editor consists of the main edit window, which displays the currently selected body and pickups, plus tabs that display various controls for pickups, strings, pots, preset volume and magnetics blend level.

5-Way Position Indicator

You can select models within the current bank using the **5-way Position Indicator** at the top of the application. The currently selected model will be highlighted. Double-click the model's name to change it.



Bank Link

Want to build a complete guitar across multiple positions of the 5-way switch? Use the **Bank Link** button on the left side of the 5-Way Position Indicator to link all 5 models within the current bank. Any changes you make to any of the 5 models in the current bank will be made to all models in the current bank.

Want to build a P90 strat? Navigate to the bank of your choice, link the bank, then choose your body, P90 pickups, pot values, etc. When you're ready to select which pickups are on for each position of the 5-way switch, de-select the **Bank Link** button, then make your pickup selections for each of the 5 positions.

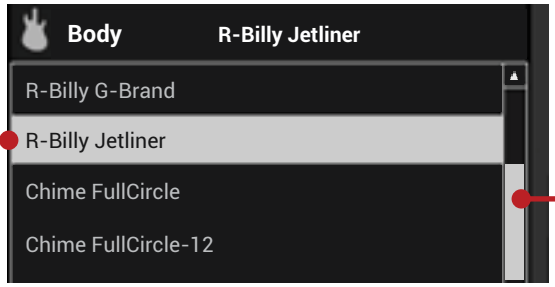
Note: see the **Pickups** section on the next page for details on selecting pickups and editing their settings.

Body

There are three ways to select your guitar **Body** type:

1. Use the **Body** drop-down menu above the edit window...

Click on a Body's name to load it into the edit window.



Click and drag the scroll bar to view all available Bodies.

2. Scroll the **Body Carousel** at the bottom of the app and select a Body type.

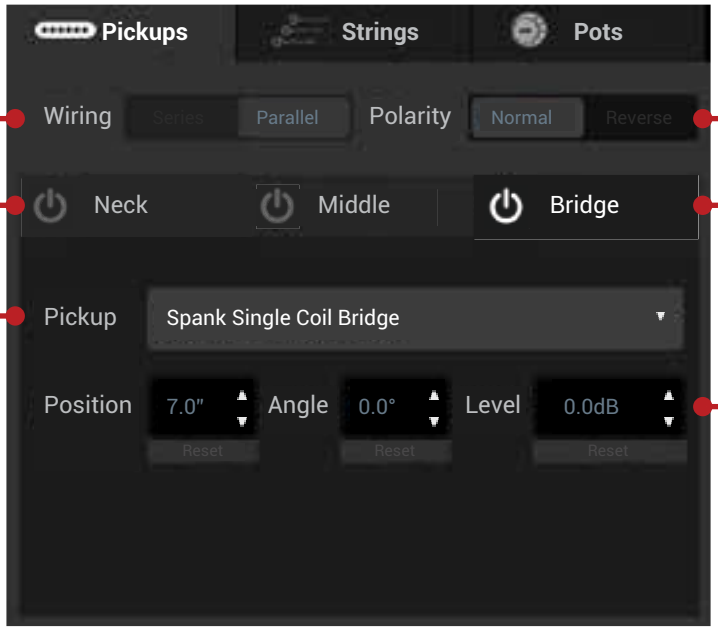
Double-click the Body displayed in the center of the carousel to load it.

3. Scroll the **Body Carousel** and find the body you'd like to work with, and instead of double-clicking it, you can click and drag the body into the edit window to load it.

With your body selected and loaded into the edit window, your next step will be to select your pickups.

Pickups

Select the **Pickups** tab, then click on the **Neck**, **Middle** or **Bridge** button. These buttons represent the 3 pickup positions on the guitar body. Choose your pickup for each position using the **Pickup** drop-down menu. Enable the **Standby** switch to turn each pickup on. You can also tweak individual pickup's **Position** and **Angle** numerically, and adjust the **Level** of each pickup for just the right blend.



Wiring switch

Neck and Middle buttons deselected; Standby switch is off for both

Pickup drop-down menu (Bridge pickup)

Polarity switch

Bridge button selected and Standby switch is highlighted, indicating Bridge pickup is on

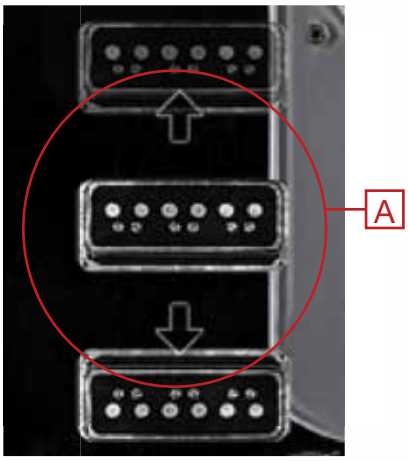
Pickup Position, Angle and Level settings

When two pickups are active at the same time, you can choose to wire those pickups in series or parallel by setting the **Wiring** switch. You can also reverse polarity for out-of-phase sounds with the **Polarity** switch.

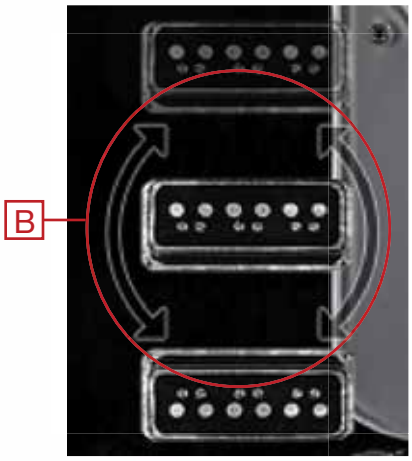
Visual Editing

To visually edit the pickups on the virtual guitar body, use your mouse to move the pickups in the edit window. Whenever you click on a pickup in this window, you'll see its settings displayed in the **Pickups** tab UI.

A Click-drag the center of the pickup to move it up or down between the neck and bridge.



B Click-drag the corner of the pickup to change the pickup angle.

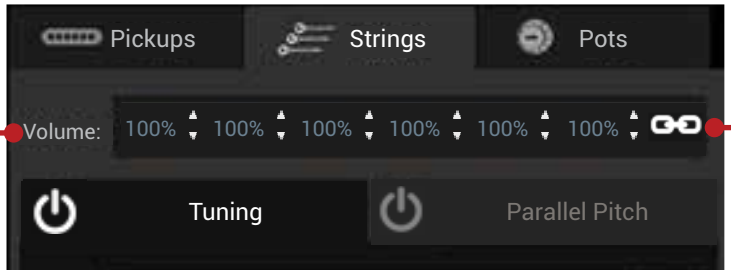


Pickup Considerations:

- You can have only 2 pickups on at any one time.
- Disabled pickups will appear transparent or invisible.
- Dragging a pickup into an adjacent pickup's 'zone' will cause the pickups to swap their position labels.

Strings

Select the **Strings** tab to display the UI for individual **String Volume**, **Tuning**, and **Parallel Pitch**.



Individual string Volume controls

Link button for string Volume controls

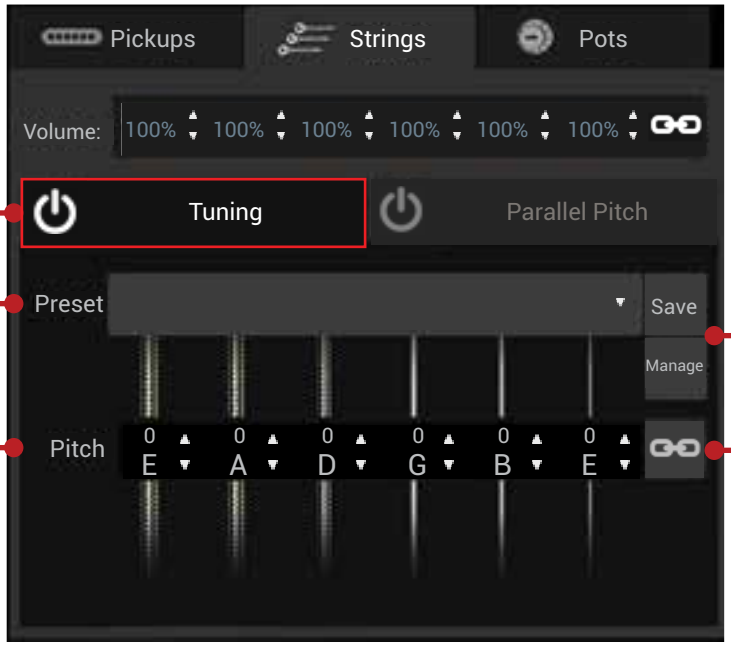
String Volume

Individual string **Volume** controls enable you to adjust the level of each string per preset. To adjust volume levels for all 6 strings at the same time, activate the **Link** button.

You can also mute a string by adjusting its level down to 0%, for authentic 5 string banjo sounds, or open G Keef tuning, for example.

Tuning Tab

When you select the **Tuning** tab, you can set up, store and recall alternate tunings.



Tuning tab and Standby switch

Tuning Preset drop-down menu

Individual string Pitch settings

Buttons to Save and Manage Tuning Presets

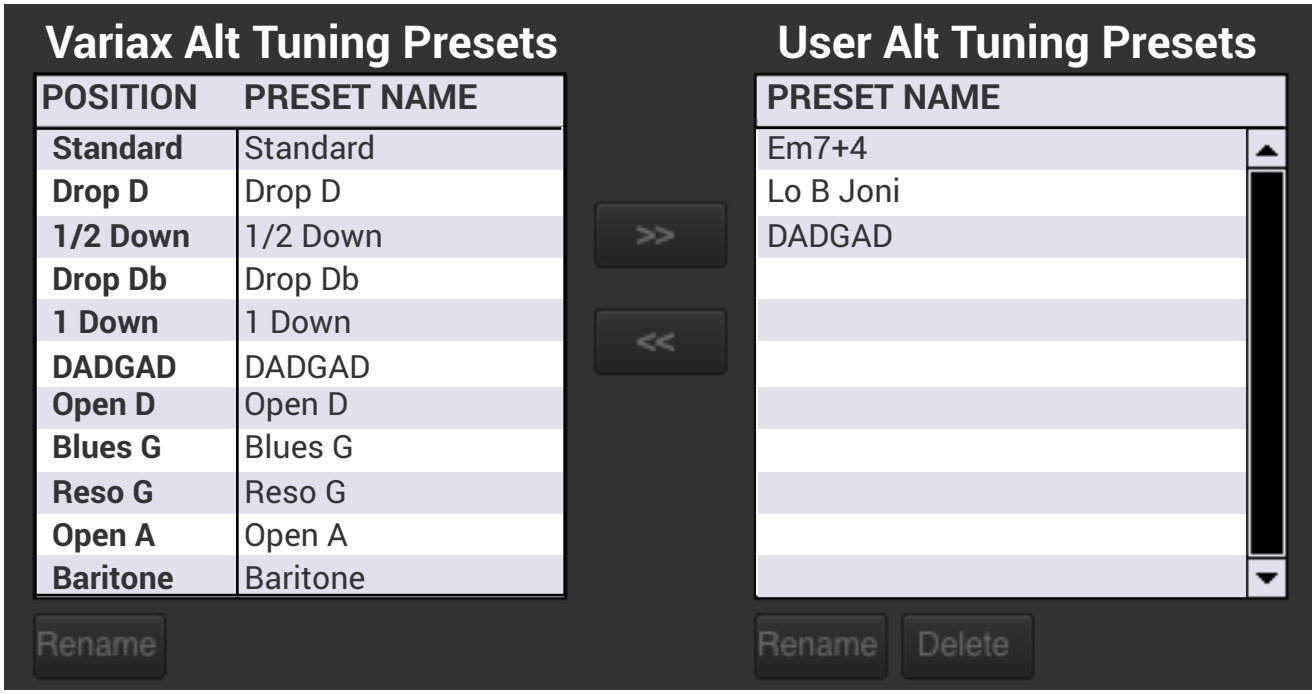
Link button for string Pitch settings

- The **Standby** switch indicates whether alt tuning is turned on or off (it's ON when highlighted).
- The **Preset** drop-down menu can be used to store and recall alternate tunings within the Workbench HD application.
- The **Save** button will store the current tuning to the drop-down list.
- The **Manage** button calls up a modal window that enables you to manage your alt tuning presets. See the **Managing Alt Tuning Presets** section on the next page for more details regarding this feature.
- To adjust individual string **Pitch** settings, press the **Up/Down Arrows** to step up or down a semitone. The note name and numerical note shift value will be displayed for each string (assuming your physical guitar is tuned to standard).
- The **Link** button for string **PItch** settings will link all 6 strings and increase or decrease their offsets together. It functions like an alt tuning capo.

Managing Alt Tuning Presets

The **Manage** button under the **Tuning** tab UI is a simple but powerful feature of Workbench HD. It enables you to create alt tuning presets in the editor, save them to your computer locally, and send them to your Variax where they can be stored as permanent presets on your Variax's **Alt Tuning Roller**.

You can also send alt tuning presets from your Variax to Workbench HD, making them available for all your Workbench HD editing sessions.



- Select a **Variax Alt Tuning Preset** on the left, press **>>** to save it to your computer Preset database.
- Select a **User Alt Tuning Preset** on the right, press **<<** to save it to your Variax's **Alt Tuning Roller**.
- You can also **Rename** or **Delete** Alt Tuning Presets, and use drag and drop to rearrange their order.

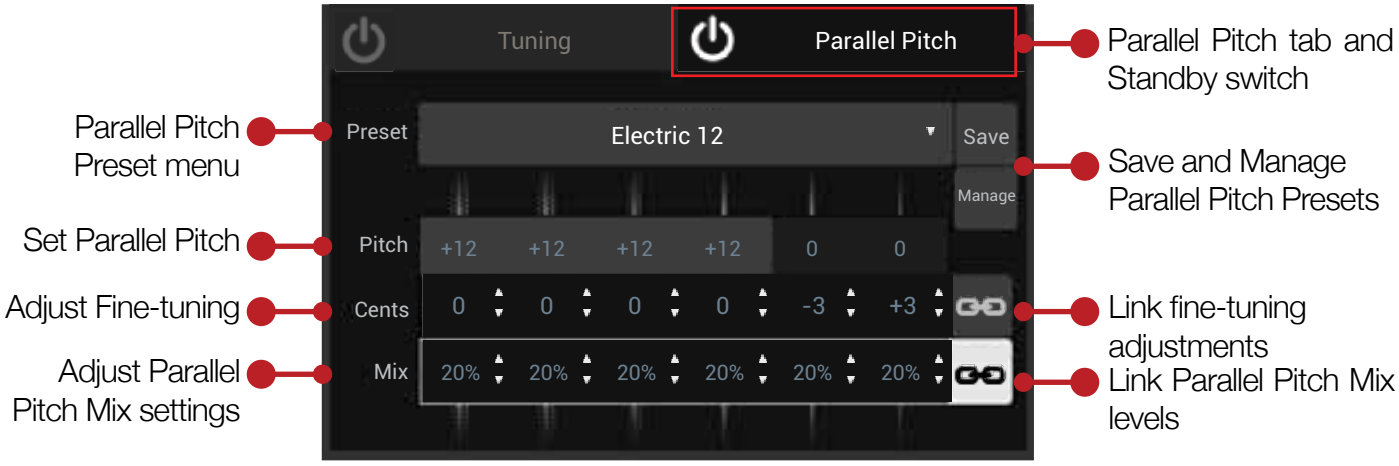
Creating An Alternate Tuning

It's easy to create an alt tuning. Here's an example of an open Em7+4 chord. Just follow these steps:

1. Select the guitar model you'd like to use as the basis for your alt tuning. Double-click to load it.
2. Click on the **Tuning** tab, then make sure the **Standby** switch is toggled on (it should be highlighted).
3. Keep the low E string at standard; click the **Up Arrow** for the A string twice to tune it to **B (+2)**.
4. Keep the D and G strings at standard; click the **Down Arrow** for the B string twice to tune it to **A (-2)**.
5. Click the high E string's **Down Arrow** twice to tune it to **D (-2)**.
6. Save the preset by pressing the **Save** button, which will open the modal **Save** window. Type **Open Em7+4** to name the preset, then press **Save**. You now have an Open Em7+4 tuning stored for recall.

Parallel Pitch Tab

Parallel Pitch is where you can create 12 strings, Nashville tunings, etc. Once you've created these tunings, you can alt tune them using the **Tuning** UI. Here's the **Parallel Pitch** UI with an Electric 12 string loaded.



- Similar to the **Tuning** UI, the **Standby** switch will indicate if **Parallel Pitch** is on or off.
- The **Preset** drop-down menu enables you to store and recall parallel pitch presets within the app.
- The **Save** button will store the current parallel pitch effect to the drop-down list.
- The **Manage** button opens a modal window that enables you to manage your Parallel Pitch presets.
- **Pitch** sets the parallel pitch semitone offset. The value defaults to +12.
- **Cents** is a fine-tuning adjustment, offsetting the parallel pitch in cents. Enable the **Link** button to adjust all 6 strings at once.
- **Mix** sets the level of the parallel string effect for each string. Enable the **Link** button to adjust mix levels for all 6 strings at once.

Creating A Custom 12 String Tuning

There are three different ways to create a custom 12 string tuning, as follows:

Option 1: Use a factory 12 string model and customize it.

- Double-click one of the factory 12 string models in the Model List to use as your starting point.
- If electric, replace the body and pickups as desired; if acoustic, select an acoustic body of your choice.
- Adjust **Fine-tuning** and **Mix** for each string until you're happy with the sound, then **Save** your preset.

Option 2: Use one of your favorite 6 string models and enable 12 string Parallel Pitch for that model.

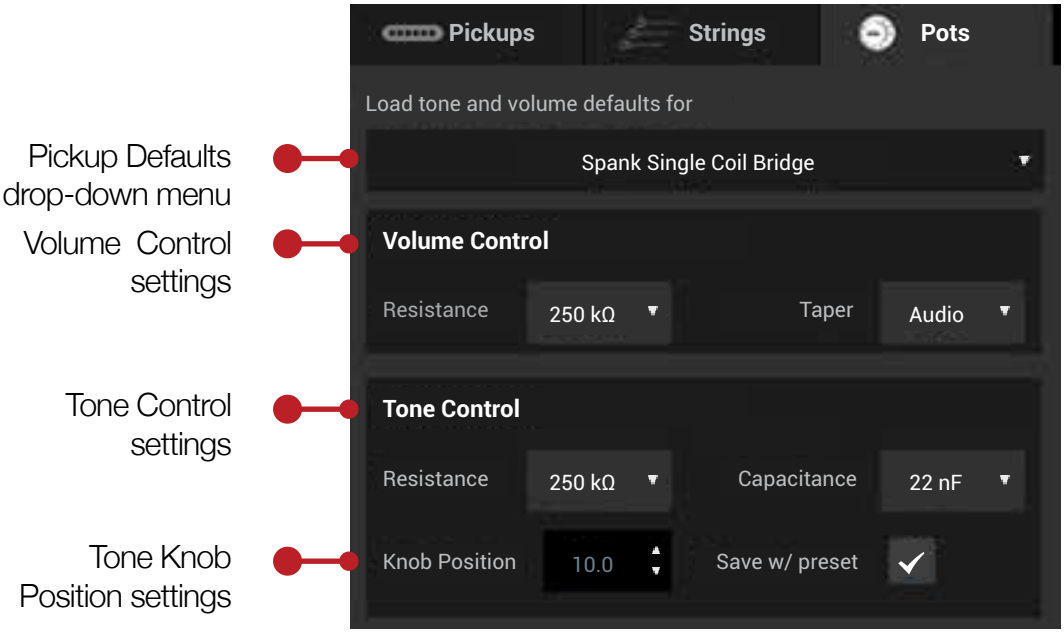
- Load one of your favorite 6 string models into the editor to use as your starting point.
- Select the **Strings** tab and the **Parallel PItch** tab; make sure the **Standby** switch is highlighted.
- For the low E, A, D and G strings, click the numerical **0** in the **Pitch** row to set them all to **+12**.
- Adjust **Fine-tuning** and **Mix** for each string until you're happy with the sound, then **Save** your preset.

Option 3: Select or build a 6 string model then load a 12 string tuning from the Preset menu.

- Select one of your favorite 6 string models as your starting point, or build a new one.
- When your 6 string model is sounding right, load a 12 string **Preset** from the drop-down menu.
- Adjust **Fine-tuning** and **Mix** for each string until you're happy with the sound, then **Save** your preset.

Pots

Click on the **Pots** tab to access the UI for choosing the electronic component values for your Variax models.



You can either load a pickup's default settings from the main drop-down menu, or dial in your own custom settings for the Volume and Tone Controls. Simply select values from the drop-down menus for **Resistance** and **Taper** (for the **Volume Control**), or **Resistance** and **Capacitance** (for the **Tone Control**),

You can also save your **Tone Control Knob Position** for the current model by selecting "**Save w/preset**". When your Variax loads a model with this selection, it will ignore the physical position of your tone knob and recall the stored setting. That is, until you move the tone knob again...then the physical tone knob takes priority.

Preset Volume

Use the **Preset Volume** control to balance the level of the current model versus the level of other models.

If the pickups and other settings you've chosen have created a particularly loud model, you'll probably want to turn it down a bit here to be more consistent with the level of your other models.

Magnetics Blend

Use the **Magnetics Blend** control to blend in the magnetic pickups on your Variax guitar with your model.

Our magnetic pickups are hardwired to the 5-way/3-way switch in your Variax, so whatever pickups you have selected on your guitar will get blended in here. You could select an Acoustic 12 String model, for example, and mix in your magnetic pickups for a rich electric/acoustic blend.

Note: The magnetic pickups on your Variax are not alt tuned by the Variax DSP, so best results can be obtained by blending your magnetics with standard or harmonically compatible tunings only.

Application Menu Commands

Application Menu Commands are available in the top menu bar of the Workbench HD application. On the far left is the **Variax Workbench HD** menu, which features standard operating system menu commands that include **About**, **Services** (Mac OS), **Show**, **Hide** and **Quit**. To the right are the menus for **File**, **Edit**, **Transfer** and **Help**. The Mac **OS X** version is illustrated below. **Windows** is different in appearance only.

File Edit Transfer Help

Open Preset...	⌘O	Open a Workbench HD Preset
Save Preset As...	⌘S	Save and name a Workbench HD Preset
Open Bank...	^O	Open a Workbench HD Bank
Save Bank As...	^S	Save and name a Workbench HD Bank
Open Bundle...	⇧⌘O	Open a Workbench HD Bundle
Save Bundle As...	⇧⌘S	Save and name a Workbench HD Bundle
Open Recent	▶	Open the most recent Workbench HD Preset
Open Preset Folder		Open the Workbench HD Preset Folder

Edit Transfer Help

Global String Levels...		Opens a modal window that enables you to adjust the level of each string on your Variax; the resulting levels are saved globally
Revert to Original		Revert Preset to original state
Undo	⌘Z	Undo last action
Redo	⇧⌘Z	Redo last action
Copy Preset	⌘C	Copy selected Preset to clipboard
Paste Preset	⌘V	Paste copied Preset to selected location
Select All	⌘A	Select all Presets in the Model List
Special Characters...	⌥⌘T	Open the O.S. special characters window (**Mac OS X only**)

Transfer Help

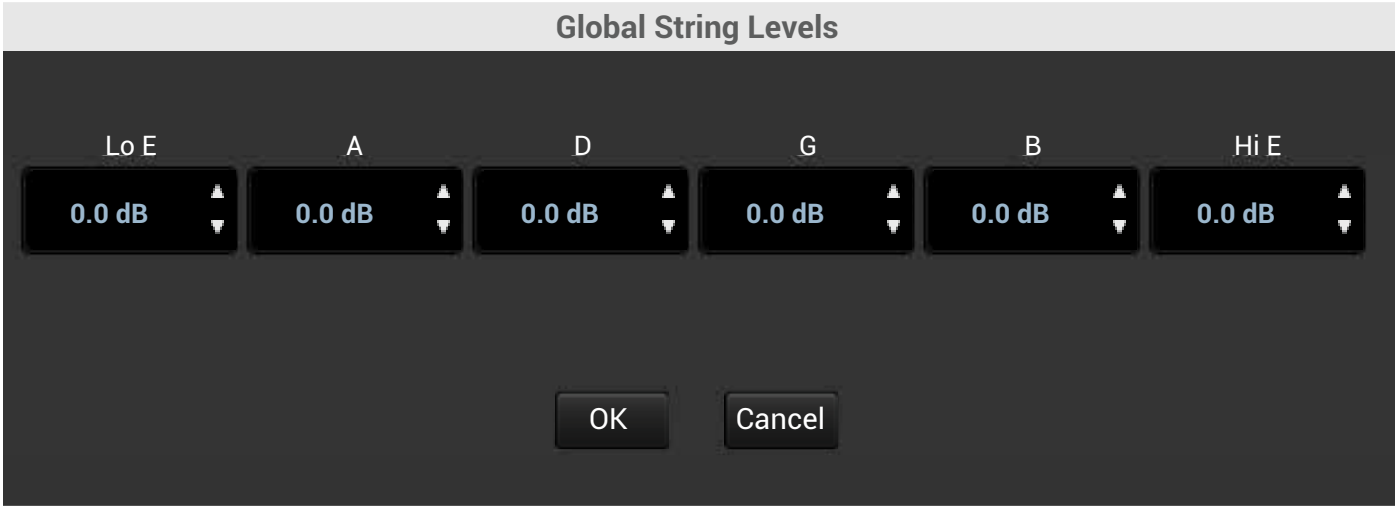
Download From Variax	Download selected Presets from the Variax to the editor
Upload To Variax	Upload selected Presets from the editor to the Variax
Download All From Variax	Download all Presets from the Variax to the editor
Upload All To Variax	Upload all Presets from the editor to the Variax

Help

Search	Type in a key word to search
Workbench HD Help	Open the Workbench HD Pilot's Guide PDF
Online Help	Go to the Online Help at Line6.com

Adjusting Global String Levels

Under the **Edit** Menu Command at the top of the application you'll see a command labeled **Global String Levels**. Selecting it will open a modal window that enables you to adjust the output level of each of the 6 strings on your Variax. The purpose of this is to ensure that you have the ultimate string to string balance. And if you want to customize your string balance, making your two high strings slightly louder, for example, you can achieve that here. Keep in mind that 0 dB is the max, so use attenuation to achieve the right balance.



- Adjust the output level of each string by clicking on the **Up/Down Arrows** (0 dB is the max).
- When you achieve a balance you're happy with, click the **OK** button (changes are saved immediately).

Your new string balance will be retained in your guitar permanently, until you balance the strings again.

Frequently Asked Questions

The following is a list of frequently asked questions and how-to items, to help you better understand Workbench HD's feature set and workflow.

What is a Bundle?

A Bundle is a set of 60 presets, equal to the total number of presets stored in your Variax or listed in the Workbench HD Model List. You can save Bundles to your local computer using the **File/Save Bundle As...** menu command.

You can also open a Bundle from your computer and load it into Workbench HD for offline or online editing using the **File/Open Bundle...** menu command.

How do I save a Workbench HD Preset for future recall, without saving it to my Variax?

Open the **File** menu and select the **Save Preset As...** menu command. You can then save your preset to your computer. It will be stored in the Line 6/Tones/Workbench HD directory.

Can I alt tune a 12 string model?

Yes. With your 12 String tuning set up, click on the **Strings** tab and select the **Tuning** button. Enable the alt tuning **Standby** switch and select an alt tuning from the **Preset** drop-down menu, or create one from scratch by adjusting the **Pitch** settings. Your alt tuning settings will be applied to your 12 String model.

What is the purpose of the Neutral Body?

The neutral body adds no Body characteristics to your model, so you'll hear just the sound of the pickups. For example, you could replicate the sound of your Variax pickups and not have a body color the sound.

Why won't my computer see my Line 6 device? I'm plugged into my computer.

You probably don't have the latest Line 6 Audio/MIDI Driver installed on your computer. Run the Line 6 Monkey and install the latest Line 6 Audio/MIDI Driver, then your device should appear as expected.

Why can't I adjust my 12 string fine-tuning to a postive value?

The upward limit of pitch shift for Workbench HD is +12. So if parallel pitch for a given string is already set to +12, you can only use negative values to fine-tune that string, since the parallel pitch setting is already at the upward limit.

Why do I see only 2 pickups on some bodies, and 3 pickups on others (with 1 being transparent)?

True to the original guitars we modeled, the number of pickups you see will be appropriate to the source guitar. In other words, on a 2 pickup guitar, when a Workbench HD middle pickup is de-activated, it will become invisible, but on a 3 pickup guitar, a de-activated middle pickup will be translucent.

For all electric bodies, however, you can toggle any 1 of the 3 available pickups ON in the **Pickups** tab, and you'll see the respective Neck, Middle or Bridge pickup appear on the body.

Why do the Neck and Middle pickups change labels while I'm dragging them on the body?

The Neck, Middle and Bridge position labels are based on their positional relationship on the guitar body. So all 3 pickups are subject to this rule, including the Bridge pickup.

For example, if you drag the bridge pickup further toward the neck than the neck pickup, the bridge pickup will be labeled neck (since it's closest to the neck). The former neck pickup will then become the middle pickup, since it would be in the middle position, and the former middle pickup, which would end up closest to the bridge, will be labeled bridge.

What do the Wiring and Polarity switches do?

These switches behave the same as they would on a physical guitar. When two Workbench HD pickups are turned on and the **WIring** switch is set to **Series**, the output of the second pickup is summed with the output of the first, which results in a louder, fatter tone. When set to **Parallel,** the pickups are blended together in parallel, resulting in a cleaner sound, at a volume similar to having only one of the pickups on.

Regarding the **Polarity** switch, when it's set to **Reverse**, the second pickup's waveform sonically cancels out the waveform of the first pickup to a degree, resulting in a hollow, comb filtered out-of-phase sound.

Which Line 6 devices will work as a computer interface with my Variax and Workbench HD?

The **Variax Digital Interface** that came with your Variax is the best interface to use with Workbench HD. You'll need a fully charged battery and a 1/4 inch guitar cable plugged in to power up your Variax.

Any other Line 6 device with a **VDI** input will also work. This includes the POD HD Pro, POD HD 500, POD X3 Live, POD X3 Pro and Vetta II. Those devices, when connected to your Variax with a Line 6 VDI cable, will also provide power to your Variax.

Why doesn't the alt-tuning sound right when I blend in my magnetics with a Workbench HD model?

The magnetic pickups on your physical guitar are not alt tuned by the DSP. So when you turn up the **Magnetics Blend** level on an alt tuned model, you may hear dissonance. You can blend in the magnetics with 12 string models, however, which will be harmonically compatible.

You might want to experiment with other harmonically related tunings as well. For example, try alt tuning a model to +5 for all 6 strings and set the **Magnetics Blend** value to 100%. You'll hear a harmonic blend of your magnetics and 5ths that sounds really fat and musical.

Body Reference

The following is a list of electric and acoustic instrument Bodies available in the Workbench HD application.

Body Name	Based On
T-Model Custom	1960 Fender® Telecaster® Custom
Spank	1959 Fender® Stratocaster® (Rosewood)
Lester Flametop	1959 Les Paul® Standard
Special Bird	1976 Gibson® Firebird
Special Special	1955 Les Paul® Special
Resonator Biscuit Bridge	1935 Dobro® Model 32 aluminum metal body
Electric Sitar	1966 Coral Sitar®
Masonite Plank	1999 Jerry Jones Shorthorn®
Lester's Banjo	Gibson® Mastertone Banjo
Tricone Resonator	1928 National® TriCone metal body
Chime FullCircle	1966 Rickenbacker® 370
Chime FullCircle-12	1966 Rickenbacker® 370-12 String
Jazz Seventy Five	1954 Gibson® ES®-175
Jazz Super Four	1953 Gibson® Super 400
R-Billy G-Brand	1959 Gretsch® 6120
R-Billy Jetliner	1959 Gretsch® Duo Jet
Semi BluesKing	1961 Gibson® ES®-335
Semi Pokerface	1964 Epiphone® Casino
Acoustic D	1959 Martin® D28
Acoustic D12	1970 Martin® D12-28 12-string
Acoustic 0	1967 Martin® 0-18
Acoustic G12	1966 Guild® 12-String
Acoustic J	1995 Gibson® J200
Neutral	Neutral Body

All product names are trademarks of their respective owners, which are in no way associated or affiliated with Line 6. These product names and descriptions are provided for the sole purpose of identifying the specific products that were studied during Line 6's sound model development. Fender®, Stratocaster®, Tele®, Telecaster®, Guild® and DeArmond® are registered trademarks of Fender Musical Instruments Corporation. Gibson®, Les Paul®, ES®, Epiphone®, and Dobro® are registered trademarks of Gibson Guitar Corp. Coral Sitar® and Jerry Jones Shorthorn® are registered trademarks of Jerry Jones. National® is a registered trademark of Kaman Music Corporation. Martin® is a registered trademark of Dreadnought, Inc. Rickenbacker® is a registered trademark of Rickenbacker International Corporation. Gretsch® is a registered trademark of Fred W. Gretsch Enterprises, Ltd.

Pickup Reference

The following is a list of electric Pickups available in the Workbench HD application.

Pickup Name	Based On
T-Model Neck	Tele® Lipstick
T-Model Bridge	Tele® Bridge
T-Model WideRange	Tele® Wide Range Humbucker
Spank Single Coil Bridge	Stratocaster® Bridge
Spank Single Coil Middle	Stratocaster® Middle
Spank Single Coil Neck	Stratocaster® Neck
Lester Neck	Les Paul® PAF Neck
Lester Bridge	Les Paul® PAF Bridge
Special 90 Neck	Les Paul® Special P90 Neck
Special 90 Bridge	Les Paul® Special P90 Bridge
Mini Humbucker Neck	Firebird Neck Mini-Humbucker
Mini Humbucker Bridge	Firebird Bridge Mini-Humbucker
R-Billy Tron Neck	6120 Neck Filtertron
R-Billy Tron Bridge	6120 Bridge Filtertron
R-Billy D'Almond Neck	Duo Jet Neck DeArmond®
R-Billy D'Almond Bridge	Duo Jet Bridge DeArmond®
Toaster Neck	Rickenbacker® 12 Neck Toaster
Toaster Bridge	Rickenbacker® 12 Bridge Toaster
Semi Humbucker Neck	ES®-335 Neck Humbucker
Semi Humbucker Bridge	ES®-335 Bridge Humbucker
Dogear 90 Neck	Casino Neck P90 Dogear
Dogear 90 Bridge	Casino Bridge P90 Dogear
Semi 90 Neck	ES®-175 P90 Neck
Semi 90 Bridge	ES®-175 P90 Bridge
Jazz 90 Neck	Super 400 P90 Neck
Jazz 90 Bridge	Super 400 P90 Bridge
89 Neck	JTV-89 Neck
89 Bridge	JTV-89 Bridge
Lipgloss Neck	Jerry Jones Neck
Lipgloss Bridge	Jerry Jones Bridge
Sitar	Coral Sitar® Lipstick Tube

All product names are trademarks of their respective owners, which are in no way associated or affiliated with Line 6. These product names and descriptions are provided for the sole purpose of identifying the specific products that were studied during Line 6's sound model development. Stratocaster®, Tele®, and DeArmond® are registered trademarks of Fender Musical Instruments Corporation. Les Paul® and ES® are registered trademarks of Gibson Guitar Corp. Coral Sitar® and Jerry Jones Shorthorn® are registered trademarks of Jerry Jones. Rickenbacker® is a registered trademark of Rickenbacker International Corporation.

Tuning Tab

When you select the **Tuning** tab, you can set up, store and recall alternate tunings.

- The **Standby** switch indicates whether alt tuning is turned on or off (it's on when highlighted).
- The **Preset** drop-down menu can be used to store and recall alternate tunings within the Workbench HD application.
- The **Save** button will store the current tuning to the drop-down list.
- The **Manage** button calls up a modal window that enables you to manage your alt tuning presets.
- To adjust **Pitch** for each string, press the **Up/Down Arrows** to step up or down a semitone. The note name and numerical note shift value are displayed (assuming your physical guitar is tuned to standard).
- The **Link** button will link all 6 strings and increase or decrease their offsets together. It's like an alt tuning capo.