

Plugin Manual



Developed by Brainworx in partnership with Fuchs Audio Technolgy and distributed by Plugin Alliance.







Introduction

The Train II embodies the superb reputation behind the Fuchs Amplification line, and their ability to build amps that totally nail the sound of guitar legends, while modernizing and expanding on the tonal possibilities that put their instruments in a class of their own. Originally inspired by Ken Fischer's famed Trainwreck, the Train II delivers the thick grit and lush Rock overdrive that harken to legends like Mark Knopfler – and multi Grammy-winning artists like Brad Paisley – but with an expanded control set that delivers a comfortably broad range of sounds without the need to build on your setup with pedals or other additional amps further down the chain. Cascading gain stages create simple to complex layers of harmonics before hitting a master volume – perfect for dialing in the girth before taming output and keeping things at a sane volume level. Accent and Thrust controls add shimmer to the high end or body to the low end respectively, further refining and characterizing your guitar's voice.

This amp offers a remarkable amount of tonal range with each setting you dial in, perfect for on-the-fly tone and gain adjustments using nothing more than the controls on your guitar.



The Train II plugin from Brainworx captures all that bold and beautiful tone from this rock and roll masterpiece from Fuchs. The plugin also adds an onboard FX rack with several useful features, like a Noise Gate that includes filtering for taming pickup hum or body rumble, Power Soak for adding more gain without losing headroom, and a vintage delay unit with a built-in "tap tempo" mode.

The Train II plugin also includes 100 impulse response Recording Chains that were perfectly captured from several boutique cabinets and recorded through Brainworx's vintage Neve console via a dizzying array of high end and vintage microphones and coveted outboard gear to deliver "record ready" tones instantly.

The Train II plugin delivers all the tone and feel of the original amp. It's so precise, you'll swear you were playing through a physical amp.



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The main applications for this plugin are

- Achieve exceptional-sounding electric guitar tracks at any volume level, without the need for great-sounding rooms or expensive guitar mics.
- Record electric guitars directly into the DAW, and then mix, edit and process without ever leaving the DAW environment.
- Re-amp less-than-perfect DI guitar tracks previously recorded in other guitar-amp situations.
- Faithfully emulate highly sought-after electric guitar tones made famous by rock's greatest guitar players.
- Get intense amounts of distortion without the need to maintain a high output volume.
- Have a piece of rock and roll history right in your DAW that feels and responds like a physical amp.
- Playing live via a real power amp and speaker setup.

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• Playing LIVE, plugged straight into a live console and / or an in-ear system.



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5 High/Mid/Low

Continuous knobs, 1 to 10. These controls adjust the gain on fixed ranges within the frequency spectrum.

6 Accent

Continuous knob, 1 to 10. The accent control works within the power amp section, reducing negative feedback at higher frequencies. It adds an edge to the overall amplifier tone. It's excellent for cutting through in a band or a recording mix. It can also allow greater ability to selectively make notes feedback and "sing."

7 Thrust

Continuous knob, 1 to 10. The thrust control works within the power amp section, reducing negative feedback at lower frequencies.

Amp

1 Power

On/off switch. With the Power switch you can activate and deactivate the processing to compare your original mix to the effects of the Train II.

2 Gain 1

Continuous knob, 1 to 10. This control adjusts the first gain stage powered by JFET transistor.

3 Gain 2

Continuous knob, 1 to 10. This control adjusts the second tube powered gain stage.

4 Master

Continuous knob, 1 to 10. This control adjusts the overall Volume of the tube driven power stage.



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FX Rack

Noise Gate

1 Closed

When lit this LED indicates that the Noise Gate is CLOSED. This means the THRESHOLD setting is higher than the incoming signal and the noise gate dims the output signal of the amplifier by the amount adjusted with the RANGE control (e.g. 50dB in the picture above).

2 Noise Gate on/off

ON/OFF switch. Enable or disable the Noise Gate completely. Switch up ('ON') means the Noise Gate is activated.

3 Threshold

Continuous knob, -120db to 0db. The Noise Gate will dim the output signal of the amplifier as soon as the input signal (your guitar signal) falls below a certain level. This level is called THRESHOLD. Adjust the THRESOLD so the noise of the overdriven amp will be reduced, but make sure you don't cut fading notes or chords.

4 Range

Continuous knob, Odb to 100db. The output level of your amplifier will be reduced or muted when the input signal is lower than the THRESHOLD setting. You may dim the output level only by a few decibels (dB), or completely mute the output in pauses by setting the RANGE to its maximum.



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Amp Filters

1 Tight Filter

Discrete 3 steps: "PRE", "POST", and "OFF". With the TIGHT filter you can cut LOW frequencies of either the DI guitar signal (PRE) or the processed amp output (POST).

- **PRE:** If your pickups produce an unintentional rumbling bass sound you can filter the low end before the DI sound even hits the amplifier.
- **POST:** If you want to cut some of the low end of your amplifier setting (maybe even only temporary) you can use this studio quality high pass filter to reduce the bass.
- **OFF:** When set to OFF the TIGHT filter is in bypass mode.

2 Tight Frequency

Continuous knob, 30Hz to 3kHz.

Set the frequency below which low frequencies will be cut.

3 Smooth Filter

Discrete 3 steps: "PRE", "POST", and "OFF". With the SMOOTH filter you can cut HIGH frequencies of either the DI guitar signal (PRE) or the processed amp output (POST).

- **PRE:** If your pickups catch a lot of hiss or noise you can filter the high end before the DI sound even hits the amplifier.
- **POST:** If you want to cut some of the high end of your amplifier setting (maybe even only temporary) you can use this studio quality low pass filter.
- **OFF:** When set to OFF the SMOOTH filter is in bypass mode.

4 Smooth Frequency

Continuous knob, 3kHz to 35kHz.

Set the frequency above which high frequencies will be cut.



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Delay

1 Delay On/Off

On/off switch. Use this parameter to switch the delay unit on and off.

2 Tap*

Discrete button. Use this parameter with your mouse to click with the groove of the song and the delay will adjust to your tapping automatically. This is a nice and easy way to set delays to musically pleasing times, especially if there is no fixed tempo in the song.

3 Delay Time

Continuous knob, 15ms to 1000ms. Use this parameter to adjust the delay time.

<mark>∕</mark> x2*

Use this button to redouble the current Delay time.

5 /2*

Use this button to half the current Delay time.

6 Tempo Bar Dubdivision*

Bar subdivision at showed bpm.

💋 Delay Mix

Continuous knob, 0% to 100%. Use this parameter to set the level balance between the dry signal and the delay.

Belay Feedback

Continuous knob, 0% to 100%. Use this parameter to set the feedback of the delay.

🥑 Delay Lo-Fi

Continuous knob, 0% to 100%. Use this parameter to add creative destruction to your delay signal.



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Rec Chains

Simply select a speaker and a complete studio setup by browsing through the REC CHAINS pull-down menu! For more information on each of the cabinet types in the REC CHAINS, please see the "Cabinets" section on page 12.

In the past two decades Brainworx owner Dirk Ulrich has produced and recorded with members of DREAM THEATER, TOTO, MICHAEL JACKSON, and with many more famous and infamous acts. The Brainworx Studio in Germany (www.brainworx- studio.de) is equipped with one of only nine NEVE VXS 72 consoles ever made, and it also hosts some of the finest outboard EQs and mic pre-amps available.

Using this impressive setup Dirk has produced a huge variety of customized 'Recording Chains' for the Fuchs amplifier, which you can apply to your plugin amp settings. Imagine a selection of 26 perfectly mic'd and EQ'd cabinets that you can select and use instantly with a single mouse click! Many amp simulations give you some captured impulses of a selection of cabinets and microphones, then they leave it up to you to EQ and further process these incomplete setups by mixing different microphone setups, adjusting phase and EQ, and so on. But this really is not an easy job; it takes years of experience to get it right.

Now all you have to do is select the Recording Chain that sounds best for your amp channel and setting, adjust the Tone Stack and Gain and you're good to go! Recallable, reliable, flexible and fast.

And if for any reason you should not like any of the Recording Chains the Plugin offers, you may use the RC Off feature. Use then your own mic'd cabinet or external IR software. This setting will also give you the sound of a tube amp wired straight into a console, which also may be a nice effects sound.



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1 RC Info

The RC Info feature showing you exactly what kind of setup was used to produce the Recording Chain you selected.

2 RC Off

This button lets you bypass the entire Recording Chain section. Use then your own mic'd cabinet or external IR loader.

3 + / - Switches (Plus / Minus)

Browse through the REC CHAINS by either using the pull-down menu of the REC CHAIN text box (see above) or just click through the settings using the + and - symbols.

4 Auto & Bar selection

If you are trying to find the best sounding REC CHAIN for your actual song it can be tiring having to play a few chords, then grabbing the mouse to select the next REC CHAIN, playing a few notes again, grabbing the mouse again, etc.

For this reason the Fuchs Train II offers you AUTO mode:

Just select a pattern 1, 2, 3, 4 or 8 Bars and the plugin will activate the available REC CHAINS automation, following the actual tempo setting of your DAW. You can now play uninterrupted and simply listen to the sound of the various REC CHAINS as the plugin switches through all of them every single bar, every two bars or every four bars, depending on your setting.

As soon as you hear the speaker setup you like best just stop AUTO mode by clicking the AUTO button again and manually select the desired REC CHAIN. Afterwards, just finetweak the TONE STACK and GAIN and there you are.



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In/Out Controls

1 Input Gain

Continuous knob, -20dB to +20dB. If you want to drive the input of the Fuchs preamp harder or softer you may adjust the input gain to your liking. Some single coil pickups from older or vintage guitars may deliver low level output that can be compensated with the INPUT GAIN.

The opposite goes for a lot of heavy metal style humbuckers. If you have recorded the DI signal too hot or if you are using other plugins before entering the Fuchs amp plugin you may want to dim the input signal.

With most standard amps you can and should leave the INPUT GAIN at 0 (zero) though.

2 Bypass Pre Amp

On/off switch. Bypass the preamp section.

3 Bypass Power Amp

On/off switch. Bypass the power amp section.

4 Power Soak

Continuous knob, -40dB to 0dB. In the real world, power soaks are being used to reduce the volume of a power amp. This way you can crank up a (tube) power amp to drive it until it starts clipping, and still record at a volume which will protect your hearing and keep the neighbors friendly.

A clipping tube power amp adds distortion and harmonics to the signal. A fully cranked up tube amp tamed in volume with a power soak will sound different than the same amp with the master volume turned down. We have modeled the behavior of the Fuchs power amp, so you may experiment with different settings of the Master Volume of the amp and the internal POWER SOAK. We recommend a setting of roughly -10dB for most scenarios.

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Cabinets we used for the Recording Chains

Fuchs

W

The Vintage cabinet is perhaps Buzz's finest and most well-known design. It features a diagonal staggered mounting of two 12" drivers, with a unique mounting arrangement that places one driver in front of the baffle and one behind the baffle. This provides a much larger perceived sound from an otherwise extremely small cabinet, a very manageable weight, and a full sound that is dynamic, clean, quick, and punchy like a 412. It's an excellent highly portable cabinet for blues, jazz, and records particularly well. The cabinets are shipped for horizontal use, but may be used in either direction or ordered for vertical use.

Orange

The 120W Orange Amplifiers PPC212-C guitar speaker cabinet is crafted using 13-ply high-density 18mm birch plywood throughout like every Power Projection Cabinet (PPC). Orange speaker enclosures, like Orange amplifiers, are built to last with manufacturing techniques that assure extremely rugged construction. Orange's unique 'skid' design feet help to acoustically couple these cabinets to the stage to provide a tighter bass response and full range definition. All Orange Amplifiers' speaker enclosures are equipped with Celestion Vintage 30 speakers and are equipped with comfortable flush cabinet handles. The Celestion Vintage 30 Speaker recreates the sound of the original Celestion Blue with new cone and coil assembly. Improved performance: rated at 60W capability, handles extra heat generated by higher power equipment. The Vintage 30 handles massive overdrive tones with ease. It's a classic 2x12 loudspeaker.



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Friedman

The Friedman Dirty Shirley 1×12 Cabinet is a 1×12", open-back extension cabinet. It utilizes tongue and groove Baltic Birch construction to deliver the bass, mid response and great sound you would expect from a Friedman cab. At the heart of the cab is a Celestion G12M-65 Creamback 16 Ohm speaker. The G12M Greenback is the definitive vintage Celestion ceramic magnet guitar speaker. When the G12M was developed in the mid-sixties, players like Hendrix, Clapton, Beck and Page, who typified the louder and more aggressive blues rock-playing styles that came to characterize that era, quickly adopted it. The G12M-65 Creamback used in the Dirty Shirley cab produces the familiar woody G12M tone, but handles greater power. This makes it ideally suited for yesterday and today's amps, when a vintage and modern tone is desired. The increased power handling brings with it low end grunt complementing the warm and vocal mid range, crunchy upper-mids and sweet, refined highs. As with all Friedman cabinets, over-sized 12-gauge speaker wire is soldered between the speaker and terminal, assuring you capture every ounce of valuable tone. The Dirty Shirley 1x12EXT is handcrafted with pride in the USA and designed to withstand the rigors of the road.

English

The 1960TV is loaded with Celestion[®] G12M-25 Greenback speakers, which are more forgiving than the 75 Watt Celestions used in the 1960A[™]; the 25 Watt Greenbacks have a warmer, more saturated sound. This 100 Watt mono cabinet is 65mm taller than a 1960A and 1960B[™], which results in a lower mid-range resonant response.

To re-create the classic looks and tones of yesteryear, Marshall offers the 1960TV cabinet. The 1960TV houses four Marshall/Celestion designed re-issue 25-watt Greenback speakers and is finished with the mid-to late-'60s style EC fret cloth and the smoother levant covering. The Marshall 1960TV stands an impressive 4 inches taller than a standard 4 x 12" - hence the 'TV' in its name which is an acronym for 'Tall, Vintage.'



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Top Toolbar

1 Undo / Redo

You can undo and redo changes you made to the controls of the Fuchs Train II plugin at any time. The UNDO / REDO will work for as many as 32 steps. This makes experimenting and tweaking knobs easy. If you don't like what you did... just undo it.

2 Settings (A/B/C/D)

The Fuchs amp plugin offers four internal settings (A/B/C/D) which will be stored with every preset. So, one preset can contain up to four amp and effects settings.

You may use similar amp settings with more or less delay, different delay times, etc., to quickly switch between different sounds, or you can switch from clean to crunch to lead within one setup / preset.

The SETTINGS can be automated in your DAW. This way it's possible to switch from a dry rhythm sound to a lead sound with tons of delay, for example.

Copy / Paste

To set up variations of similar sounds you don't have to dial in all the parameters several times. Let's say you like your setting A and want to use the same sound, just without delay, as setting B.

- Simply press COPY while you are in setting A.
- Switch to setting B by pressing 'B' in the settings section.
- Press PASTE, now setting B is identical to setting A.
- Bypass the DELAY.

Now you can switch between A & B and play the same sound with or without delay.

4 FX Rack

Toggle between FX Rack and Standard view.

5 About

Information about the development of the plugin.



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Bottom Toolbar

1 PA Logo

Clicking the Plugin Alliance logo takes you to the Plugin Alliance website via your web browser, that's if your computer is online.

2 License Type

The toolbar displays information about the type of license you're running: Trial licenses will be displayed along with the number of days until expiration; there is no note for full licenses as these are unlimited.

3 \$ (Icon)

If you are using a demo / trial version of our products, you can always click this icon to open a browser that redirects you to the respective product page in the Plugin Alliance store. This is where you can easily purchase a product without having to look it up on our website.

🝊 Key (Icon)

Clicking on the key icon brings up the activation dialog, allowing you to manually reauthorize a device in the event of a license upgrade or addition. You can also use this feature to activate additional computers or USB ash drives.

5? (Icon)

Clicking the ? icon opens up a context menu that links to the product manual PDF, as well as other helpful links, e.g. to check for product updates online. You must have a PDF reader installed on your computer to be able to read the manual.

System Requirements & FAQ (Links)

For latest System Requirements & Supported Platforms https://www.plugin-alliance.com/en/systemrequirements.html Particular details for your product https://www.plugin-alliance.com/en/products.html Installation, Activation, Authorisation and FAQ's https://www.plugin-alliance.com/en/support.html



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Factory Presets

We have made a lot of presets for the Fuchs Train II amp plugin, many of them have been made to work perfectly with classic guitars like Strats, Teles or Paulas. All of the factory presets offer A/B/C/D variations, do try them out!

This effectively quadruples the factory sounds you can browse through, and many similar amp settings sound quite different with different FILTER or DELAY settings.

These presets are only intended to give you an easy start and to demo some of the tones you can get out of the Fuchs Train II amp plugin.

Creating your own Sounds & Presets

When you start to create your own sounds the most important elements to adjust are the DRIVE, TONE SECTION and the REC CHAINS.

- Dial in as much GAIN or Distortion as you like.
- Play through as many REC CHAINS as you like and pick the one that sounds closest to what you are looking for without altering the TONE SECTION.
- NOW start tweaking the TONE SECTION to fine-tune your amp settings.

Experiment, be creative. We are confident that the different tone selections of the amp and the huge selection of REC CHAINS will offer you many possible combinations that will sound great on a big variety of musical styles and genres.



Plug in, Rock out! - www.brainworx-music.de