

*Suhr*<sup>®</sup>

RUFUS<sup>™</sup>

RE|LOADED

USER GUIDE



Thank you for purchasing the **Suhr Rufus Reloaded™**. Please take some time to read through this guide to familiarize yourself with its many features and applications.

## OVERVIEW

Rufus Reloaded is a unique pedal that offers a vast array of fuzz tones. With the Reloaded edition we have added an extremely dynamic and tactile octave-up effect.

We focused our development on creating a powerful, easy to play octave-up, that responds evenly across all of your instrument's pickup selections and the entire fingerboard - effortlessly delivering the iconic "Band of Gypsies" tone at your fingertips.

We have also re-voiced the circuit to strike a balance between normal and octave-up modes. This is especially noticeable in the bottom-end, where more of the naturally occurring lower frequencies pass through.

## EXCLUSIVE FEATURES

- Silicon Transistors
- Octave-up
- 3-Band Eq
- mf(x) Multi-Function Technology
- FX Link
- True Bypass Switching

## GETTING CONNECTED

**INPUT:** Connect this jack to the output of your instrument or effects device. Unlike traditional fuzz pedals, Rufus Reloaded's input was optimized to accept the output of a buffered device such as a tuner or other pedal effects without sacrificing the interaction between your instrument and Rufus Reloaded.

**Note:** Connecting a cable to the input jack will power up the pedal. If using the internal battery, remember to unplug your cable from the input jack when you are finished playing in order to conserve battery life.

**OUTPUT:** Connect this jack to the input of an amplifier or another effect device.

## POWER REQUIREMENTS - IMPORTANT

Rufus Reloaded was designed to be powered via 9V battery or a 9VDC center negative power supply.

## BATTERY MONITOR

Upon powering up, the battery voltage is measured. If the voltage measured is lower than 5.5V, Rufus Reloaded's LED will flash 3 times to alert you that it's time to replace the battery. Once the 9V battery is replaced, normal operation will resume. Should a battery fail completely (<5V), Rufus Reloaded will switch itself into True Bypass mode and the LED will begin to flash. This feature ensures that your signal will continue uninterrupted and undistorted until you can replace the battery with a new one.

**Note:** The LED flash can be defeated by pressing the footswitch to turn it off.



Rufus Reloaded features an easy to tweak control layout which includes: **Fuzz**, **Level**, **Bass** and **Mid** rotary controls along with a three position **Treble** switch.

**FUZZ:** Adjusts the amount of Fuzz/Gain applied to your signal.

- At lower settings, (0 - 3) Rufus Reloaded produces a thick, subtle break-up effect with excellent top-end definition. This setting is ideal for pushing a clean amplifier into crunch territory and for playing a variety of Blues and Rock rhythm styles. Also try these settings in Red Mode (Octave Up) for an octave-only effect.
- At medium settings, (4 - 6) Rufus Reloaded offers increased sustain and harmonics with greater dynamic response when using your instrument's volume control. Use this setting to dial in iconic tones of the late 60's British Blues/Rock era.
- At higher settings (7 - 10), Rufus Reloaded produces a cacophonous array of over the top fuzz effects that are expressive and fun to play. Use these settings to channel 60's Psychedelic Blues, 70's Classic Rock, and 90's Grunge-era tones.

**LEVEL:** Adjusts the overall output level of Rufus Reloaded. Use this control to compensate between your amplifier and Rufus Reloaded when placed into your signal path.

**BASS:** Adjusts the amount of bass.

**MID (Midrange):** Adjusts the amount of midrange.

**NOTE:** Use this control at lower settings for a scooped effect.

**TREBLE SWITCH:** This switch features the following three position settings:

- **Left** - Cuts the amount of high frequencies for a warmer tone. Use this position to dial in a smooth violin-like tone for solos or warm rhythm textures.
- **Middle** - Offers a flatter more neutral response than those to the left or right, allowing a broader range of midrange and treble frequencies to come through for a classic 70's fuzz effect.
- **Right** - Boosts the amount of high frequencies for more attack and bite. This position is very effective when dialing in scooped, Grunge-era fuzz tones.



**On/Off Effects Status Indicator:** The LED indicator displays Rufus Reloaded's effect status, on/off.

### **TRUE BYPASS SWITCHING**

Rufus Reloaded employs True Bypass switching (via relay) which removes the effect from the signal chain.

# *mf(x)*<sup>TM</sup> = MULTI-FUNCTION TECHNOLOGY

To enhance your overall playing experience, we developed Multi-Function Technology (**mf(x)**). **mf(x)** is a proprietary foot switch technology that enables you to seamlessly select between Rufus Reloaded's two distinct user modes, Green (NORMAL) or Red (OCTAVE-UP), during a performance by simply holding down the foot switch.

**NOTE:** Rufus Reloaded has built in memory to recall the last mode of operation.

## **mf(x) MODES**

**Green (NORMAL)** - Voiced to offer a wide range of classic silicon infused fuzz with the response and dynamic range of a great distortion pedal or tube amplifier.

**Red (OCTAVE-UP)** - Incorporates frequency doubling circuitry to produce the iconic octave-up fuzz effect.

## **EXTERNAL / REMOTE SWITCHING**

### **FX LINK (See Diagram)**

Rufus Reloaded features proprietary FX Link technology which offers players the ability to externally control Rufus Reloaded's bypass and operating modes in real-time via an external footswitch or control function switching device.

## **MODES**

FX Link consists of the following two modes:

**Green\*** (default) - Use this mode if you have an external switching system to remotely control your effects.

TIP - On/Off (Normal) Latching

RING - On/Off (Octave) Latching

**Orange** - Use this mode to remotely toggle between Rufus Reloaded two **mf(x)** modes via a single momentary footswitch. The use of this mode does not impact the functionality of the built-in footswitch.

TIP - Normal/Octave Toggle Unlatching

**NOTE:** When connected to an external switch, Orange mode allows the player to toggle between Rufus Reloaded's Green and Red modes when bypassed.

## **CHANGING FX LINK MODE / POWER UP PROCEDURE**

Rufus Reloaded ships by default in Green mode.

To change FX LINK modes, press and hold the footswitch while powering up Rufus Reloaded. The LED will illuminate (orange/green) temporarily to indicate the FX LINK mode. To return Rufus Reloaded to the previous FX LINK mode please repeat the previous power up procedure.

**NOTE:** If using a battery to power Rufus Reloaded, you will need to unplug the cable from the input jack. While holding down the footswitch, plug in the cable to change the FX LINK mode.



## **FX LINK SWITCH ILLUSTRATION**

**Right:** Rufus Reloaded will power up in the **ON** state.

**Center:** Rufus Reloaded can be switched remotely via the FX Link jack. In this position Rufus Reloaded's state will be dictated by the status of footswitch connected to the jack. If the FX Link jack is not utilized, Rufus Reloaded will power up in the **Bypass** state.

**Left:** Rufus Reloaded will power up in the **Bypass** state.

## SAMPLE SETTINGS

### FUZZ DRIVER



Unlike many traditional fuzz pedals, Rufus Reloaded can be effectively used at lower settings to push the front-end of a cleanish amplifier into a dynamic rhythm crunch tone.

### PURELY OCTAVE



Use this setting to add a warm upper octave effect to the front-end of your amplifier or another overdrive/distortion effect.

### SCOOPED FUZZ



With these settings Rufus Reloaded offers scooped Alternative/Grunge-era fuzz tones with a fat low-end, harmonious sustain, and enough top-end to cut through the sludge.

### RESONATE FUZZ



In this setting Rufus Reloaded offers a dynamic array of inspiring fuzz/octave effects that responds dynamically to your hands and your instrument's volume control.

# SPECIFICATIONS\*

<b>Input Impedance:</b>	5k ohm
<b>Output Impedance:</b>	10k ohm
<b>Power Connector:</b>	2.1mm x 5.5mm, center negative
<b>Operating Voltage:</b>	9Vdc
<b>Maximum Voltage:</b>	12Vdc
<b>Reverse Battery Protection:</b>	Yes
<b>Over Voltage Protection:</b>	Yes
<b>Current Consumption:</b>	9mA
<b>Estimated Battery Life:</b>	Approximately 60 hours
<b>Fx Link Connector:</b>	1/8" (TRS) stereo jack

<b>Dimensions:</b>	2.50" Width x 4.50" Depth x 1.25" Height
<b>Weight:</b>	0.75 pound
<b>ROHS Compliant:</b>	Yes

*\*All specifications subject to change without prior notice.*

# SUHR.COM

## WARRANTY FOR SUHR AMPLIFIERS AND ELECTRONIC PRODUCTS

JST warrants for lifetime from date of purchase by the initial retail purchaser that this product shall be free from defects in workmanship. Electronic components such as capacitors, resistors, filters, transformers, jacks, and pots are covered for 5 years. Any parts determined defective by JST within the five (5) year term shall be repaired or replaced by JST without charge for parts and labor provided the unit is returned, transportation costs prepaid, to JS Technologies, Inc., 601 Crane Street, Unit A & B, Lake Elsinore, CA 92530, or to such facility authorized by JST. JST will pay shipping costs to return the unit to its owner. Defects in workmanship will be determined by JST for limited lifetime coverage.

This warranty does not cover damage caused by accident, misuse, abuse, neglect, unauthorized or improperly performed repairs, alterations, and/or wear and tear occasioned by use of the product, and does not include any expense or inconvenience or loss of use while the product is being repaired or replaced. JST expressly disclaims any liability for consequential damages arising from the sale, use, or inability to use the product. Any warranty implied by law, including any warranty of merchantability or fitness, is expressly limited to the one (5) year warranty term for the parts on our amplifiers and electronic products. The foregoing statements of warranty are exclusive and in lieu of all other remedies. Workmanship lifetime warranty is limited strictly to the original retail purchase of the instrument registered with JST within 10 days of purchase from an authorized JST dealer or distributor. JST will pay shipping costs to return the unit to its owner within the mainland U.S.

The above warranty policy only applies to customers in USA. If you are an international customer, please check with your distributor and the dealer in your country for warranty matters. Warranty issues must be handled through your dealer or distributor. If you are an international customer who purchased (or plan to purchase) from a US dealer, we can handle warranty matters direct but you will be responsible for shipping both ways. We encourage international customers to purchase through your local distributor or dealer for this reason. Our international distributors are setup to handle warranty issues in their respective countries. If you do not have an authorized Suhr dealer in your country, please contact us direct for further details.