

PLUSH FX PEDALS

®

"VERBRATOR" ®



Tube effects loop and reverb pedal

V 1.1 (27-August-2012)

Operations Manual

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PLUSH FX PEDALS

Verbrator ®

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1 Introduction to the Verbrator™

First of all, **thank you** for purchasing the Plush Verbrator™ !

The Verbrator was designed as a multifunction unit, which can be used as a reverb pedal (with a tube audio stage), as well as for adding a tube buffering or reverb to amps with passive or non-reverb equipped amps with an active or passive loop.

The unit is a full function unit, which can operate on pedal or rack level effects, as well as being used as a guitar reverb pedal on a pedal board (on the input of an undistorted amplifier input).

The Verbrator is built from the finest premium parts, and will give you years of enjoyment and high performance with no maintenance required.

Please read this manual completely, to obtain the most from your unit.

All connectors are Neutrik quality, the casing is die cast aluminum with an industrial powder coat and baked on silk screening for long life and durability during use. The internal circuit boards are G-10 glass-epoxy and the circuit boards are double sided.

Enjoy the Verbrator ® and may it give you years of playing pleasure.

Andy and Annette Fuchs
Fuchs Audio Technology LLC

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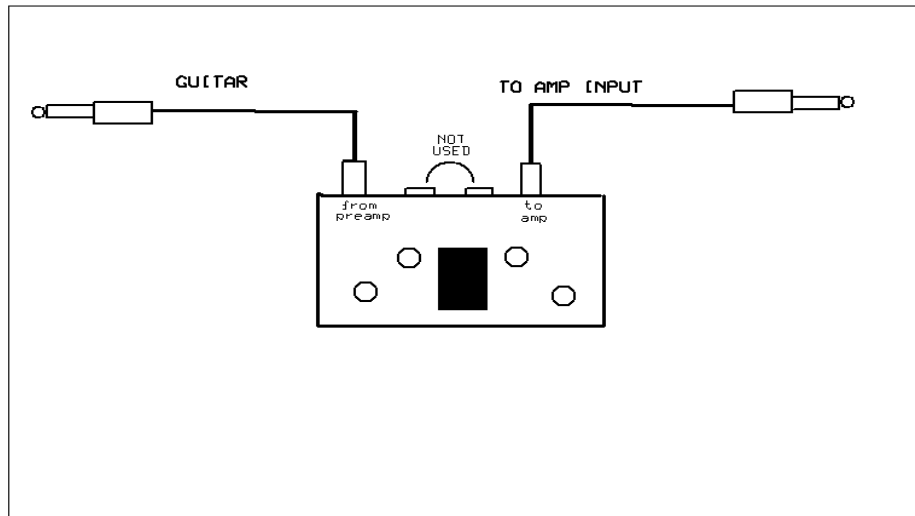
("Fuchs Audio Technology" "Plush" & "Verbrator" are registered trademarks of Fuchs Audio Technology)

Verbrator Specifications:

Cabinet: 4.5 X 5.5" x 1.5"
Weight: .5 lbs
Cabinet Material: Die Cast aluminum
covering: Industrial Grade powder coating. Heat cured silk screening.
Circuitry: Selected low noise tube, switching power supply, and 24-bit digital reverb.
POWER: 9 VDC (ONLY) from external adaptor only, no battery.

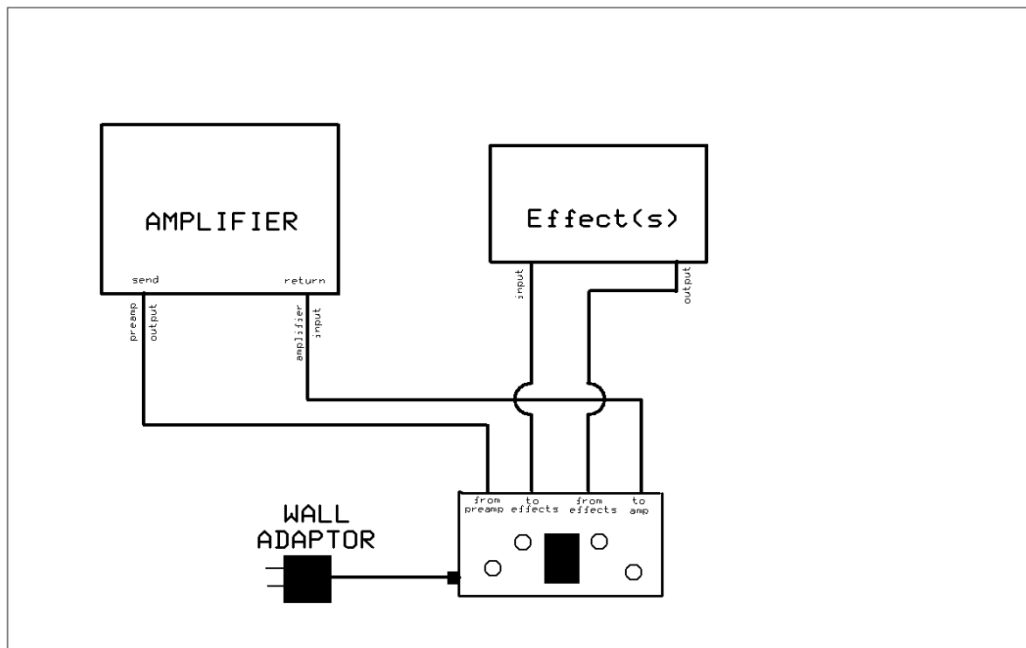
Follower Input impedance 250-K Buffered output impedance approximately 10-K.
Gain block input impedance: 250-K output impedance approx 10-K.

2 How to connect and operate the Verbrator as a reverb pedal



In this mode, the pedal provides reverb. The dry signal passing through the unit is fully analog and unity gain, and the reverb mix is adjusted by the reverb level control. The decay of the reverb may be adjusted using the reverb decay control. The reverb can be adjusted from a small room, to a very large arena sound, with a medium decay (most reverb pan-like) occurring at about $2/3$'s of rotation on the decay knob.

Using the Verbrator as an effects loop with optional reverb:



When the Verbrator is used as a loop, the pedal is plugged into the amplifier patch jacks. The output from the preamp (usually labeled send, or preamp out) is sent into the jack marked "From Preamp". The output to the effects is taken from the jack marked "to effects". This is a low impedance send which can run pedal or rack level solid state or tube equipment easily. The send level is adjusted by the send knob.

The return from your effects chain plugs into the jack marked "From Effects". The return level is adjusted by the return level knob. This knob may be pulled to get additional return gain for lower output pedals or rack devices. This is adjusted to taste.

When the pedal is used in parallel (normal) mode, the send and return controls are used to adjust that the input to the first pedal is not overloaded, and the return level may be adjusted for how much effect you desire. When the pedal is in *series mode*, the return control will set overall level of the system, and the Verbrator should be adjusted so the level of the amplifier (your system level) is approximately the same as when the unit is not used. The intent of a properly functioning effects loop is to insure proper level and impedance matching from the amplifier to and from the effects loop. While the unit can add gain when required, it is usually not recommended as it increases the chances of extraneous noise.

When using the unit as a reverb, it can be used a number of ways: Plugged directly between the guitar and amp, at the end of a pedal board, plugged through your amps effects loop (which may be a passive or active loop).

When the unit is used as an effects loop, the reverb mixes into the dry signal (or the effected signals returning from your effects chain, in the output gain stage. Levels must be carefully adjusted for the proper mix during use.

Powering the Verbrator:

The Verbrator runs on 9VDC, through the adaptor (supplied). The unit normally ships with either a Visual Sound One Spot or the Godlyke Power Adaptor, both of which are universal adaptors for worldwide use. The pedal is intended to operate on 9-VDC only. Exceeding this voltage can damage the unit, which is not covered by warranty. If you wish to power your Verbrator from an external power supply, it must be capable of furnishing at least 200 MA of clean, ripple free DC.

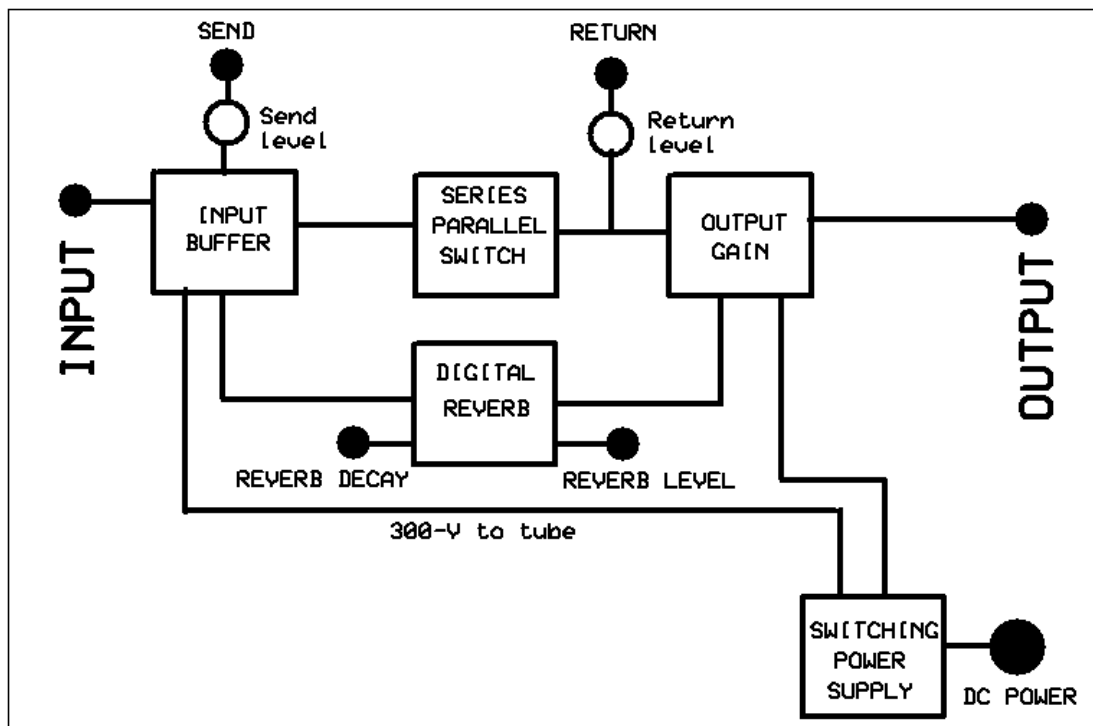
Tubular details:

The tube used in the Verbrator is a selected Ruby Tubes 12AX7-HG. Since all the audio through both the reverb and loop portions of the pedal pass through this tube, it's important that it be a high quality tube.

When replacing this tube, a 12AX7 tube of similar quality should be used to insure maximum performance with lowest noise. The tube supplied with the unit should last for many years of trouble-free performance. Suggested tube replacement time is 3-years from date of purchase.

3 Block Diagram

Verbrator Block Diagram:





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4 Warranty Information

The PLUSH/Fuchs Audio Technology Warranty

In the United States, Fuchs Audio Technology® guarantees our products to be free from defective workmanship or material failure for a *period of FIVE years (tubes excluded) from date of new purchase to the original purchaser*. Outside of the United States, the warranty is based on each country's local laws and distributor's policies. Contact your local dealer or distributor for details. This does not apply to Fuchs amplifiers or pedals that have been tampered with, damaged by shipping carriers, reverse engineered, or modified. Your warranty form/information must be returned to Fuchs Audio Technology® within 30 days of purchase, or your warranty will not be in effect. Fuchs Audio Technology® reserves the right to suspend or terminate the above warranty at our sole discretion, should damage from any of the above limitations and or exclusions be detected upon examination.

Keep the information on this page for your records.
Please mail-in warranty form on next page

PLUSH MODEL	_____	PURE GAIN PLUS
SERIAL NUMBER	_____	
OPTIONS INCLUDED	_____	

PRODUCTION DATE	___/___/___
TESTED BY	_____ Fuchs Audio Technology®

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WARRANTY REGISTRATION FORM

This completed form must be returned to Fuchs Audio Technology within 30 days of purchase along with a copy of your receipt from your authorized dealer.

Please fill in all requested information on this form so we may register you for future warranty repairs or future upgrades, should they become available.

Purchasers Name _____

Address _____

City _____ State _____ Zip _____ Country _____

Phone Number _____

E-Mail address _____

Model _____

Serial Number _____

Date of Purchase _____

Dealer Name _____

Comments:

Please return this form to:

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