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Neunaber products are designed and manufactured in Orange, California USA. Please visit www.neunaber.net for more information and support.

Connections

We recommend that this pedal be placed after any overdrive. If you use the overdrive channel of your amplifier, this pedal should be placed in the effects loop for best results.

The **Power Jack** accepts a standard (5.5 mm OD x 2.1 mm ID) center-negative pedal power adapter (not included). The power adapter must be between 9V and 12V and capable of supplying 80mA or more.

The **Input Jack** (right side) accepts input directly from your instrument, amplifier effects loop output, or other effects pedals via a standard 1/4" (6.35 mm) phone connector.

For line-level (+4 dBu) input, we recommend keeping the Mix knob below 60% and using a 12V power adapter.

The **Output Jack** (left side) supplies output to another effects pedal, an amplifier, or effects loop return via a standard 1/4" (6.35 mm) phone connector. The buffered output is capable of driving long cables. If plugging into the input of an amp, you should use the low impedance (Lo-Z) input if available.

The **Mix Knob** controls the mix between the dry signal and effect:

- Full counter-clockwise is 100% dry
- Full clockwise is 100% effect, typically used with a parallel effects loop
- Approximately 3 o'clock is an even mix: half dry/half wet

The **Depth Knob** controls the length of the reverb tail, or in other words, the size of the acoustic space.

The **Shim Knob** controls the amount of shimmer in the effect. With this knob fully counter-clockwise, there is no shimmer: the effect is reverb only.

The **Foot Switch** bypasses the effect. The LED lights when the effect is active. Bypassing the effect does not lower power consumption, because it does not turn off power to the pedal.

Bypassing (buffered bypass)

With the buffered-bypass version of the Seraphim Shimmer, the signal is always buffered whether the LED is on or off. The two bypass modes are:

- Buffered Trails—allows the reverb to trail off naturally after the pedal is bypassed
- Buffered Normal—cuts off the reverb tail immediately when the pedal is bypassed

Bypassing (true bypass)

With the true bypass version of the Seraphim Shimmer, the bypassed signal may be selected to be buffered or true bypass. The two bypass modes are:

- Buffered Trails—allows the reverb to trail off naturally after the pedal is bypassed
- True Bypass without trails—cuts off the reverb tail immediately when the pedal is bypassed

Changing the Bypass Mode

When the pedal powers on, the LED will blink to indicate the bypass mode:

# Blinks (per sec)	Bypass Mode
1	Buffered Trails
2	Normal / True-Bypass

To change the bypass mode, unplug the pedal or turn off the power supply. Hold down the footswitch while re-applying power to the pedal. The pedal will switch to the next mode, and the number of blinks per second indicates the current mode.

Switching Between Shimmer and Reverb-Only

Using the footswitch, you may select between reverb-only and shimmer reverb:

- A short press (less than ½ second) enables or bypasses the effect—both reverb and shimmer.
- A long press (greater than ½ second) enables or bypasses the shimmer only, whether or not the effect is currently bypassed.
- The LED indicates the current mode as follows:

LED	Effect	Bypass
constant off	reverb	bypassed
constant on	reverb	enabled
short pulse	shimmer	bypassed
long pulse	shimmer	enabled

When the shimmer effect is disabled (reverb-only mode), the Shim knob is also disabled.

Specifications

ELECTRICAL

Nominal Input Level, Mix < 60%	+4 dBu, line level
Nominal Input Level, Mix > 60%	-10 dBV, instrument level
Input Impedance	1 MΩ
Output Impedance	1 kΩ
Gain, enabled vs. bypass	+/-0.5 dB (dry signal only)
Frequency Response	20Hz—20kHz, +0.1dB, -0.5dB (dry signal or bypassed)
Total Harmonic Distortion	< 0.0015 % (typical, dry/bypassed signal, 22Hz—22kHz, 1.0 V _{RMS} , 1 kHz)
Signal-to-Noise Ratio	109 dB, dry/bypassed signal (typical, A-weighted) 100 dB, Mix @ 50% (typical, A-weighted)

POWER

Power Adapter Input	9-12 V DC, 80 mA buffered, 95 mA true bypass plug: center-negative, 5.5 mm OD x 2.1 mm ID
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PHYSICAL

Dimensions	2.9" W, 4.6" L, 2.0" H / 73 mm W, 117 mm L, 51 mm H
Weight	7.0 oz / 200 g

*Specifications subject to change without notice.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: This product contains no user-serviceable parts. Opening the pedal may expose sensitive components to electro-static discharge, resulting in permanent damage. Please do not remove the bottom cover or otherwise disassemble the pedal.

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