



OUTPUT TRANSDUCER (pickup)

There can be a lot of complexity in the movement patterns that occur in the spring during the reverberation process, especially near the input transducer.

However, due to the spring elasticity, by the time vibrations travel to the output transducer we are mostly hearing the spring's own resonant frequencies, which is why all spring reverbs have such a particular jangly, metallic sound.

The LIGHT Pedal's spring output (**spring knob**) offers a classic high quality spring reverb sound with the option to adjust the spring "drip" (**drive knob**) and the output signal's tone (**tone knob**).

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OPTICAL SENSORS	
To capture the full range of the spring's movements, the LIGHT Pedal uses multiple sets of special Infra-Red optical sensors that act as photoelectric pickups. Each set of IR sensors is directed at a different point on the moving spring's surface, thus giving access to a whole range of additional reverb textures and tones.	
The optical sensors are also able to detect much finer movements than the output trans- ducer which makes longer decays possible, as well as a much wider frequency response, including subharmonics and overtones.	
Additionally, some amazing modulation and tremolo effects can be achieved by scrolling through the optical sensors or by switching them on and off (optical effects).	
CONTROLS	tails

MIXING DRY SIGNAL WITH REVERB



4 REFLECT This mode is a lo-fi delay that will send the instruments signal back into the reverb tank several times.	CTRL knob adjusts the delay rate. CTRL + Footswitch calibrates the optical sensor pairs.			
5 FEEDBACK Feedback mode sets the spring tank into self-oscilla- tion, which lets you create various drones and "wall-of-sound"-type distorted reverb pads. Lots of potential uses when paired with an ex- pression pedal, or when in Momentary mode.	Use the CTRL knob to adjust the feedback frequency. CTRL + Footswitch calibrates the optical sensor pairs.			
6 HARMONIC In harmonic mode the spring tank is driven by a special circuit designed to produce a lot of overtones and harmonics. Think of it as a shimmer reverb effect, but only produced naturally within the spring tank.	Use the CTRL knob to adjust the shimmer effect's central fre- quency.CTRL + Footswitch calibrates the optical sensor pairs.			
GATE + EFFECT CTRL				

In any one of the 6 effect modes, you can make the CTRL value react to the instrument's input signal. This is achieved by turning **the Gate knob while pressing & holding the pedal's Footswitch**.

For example:

- (1) Set the pedal into **trem mode**
- 2 Set the CTRL knob to around 12 o'clock
- Press and hold the footswitch. While holding the
- 3 footswitch turn the **Gate knob** all the way down.

Now the tremolo rate will slow down as soon as input signal is detected.

Alternatively - you can make the tremolo rate speed up with each strum by **pressing & holding the footswitch and turning the Gate knob up**.

This principle applies to all effect types, including Optical mode, where **footswitch + Gate knob** can make the optical sensor pairs move forward or backwards based on the incoming audio signal.

Note - if the CTRL value for an effect is already maxed out (or at a minimum value), the **footswitch + Gate knob** will only be useful in the opposite direction.

EFFECT COMBINATIONS

As mentioned earlier, the first three effect modes (**optics, sweep, trem**) are so called optical effects, whereas **reflect**, **feedback** and **harmonic** effects are created directly in the spring tank.

The LIGHT Pedal allows you to combine any one optical effect with either one of the remaining three spring tank effects. For example, let's combine sweep and reflect modes:

- Set the pedal to sweep mode and adjust the modulation rate with the CTRL knob.
 You can also set up a dynamic rate value using gate knob &
 - footswitch (see above).
- 2 Press & hold the footswitch and set the effect knob to Reflect.
- (3) Now sweep and reflect modes are combined. The CTRL knob will apply to the currently active effect mode (reflect), and you can set up a different gate + footswitch parameter for the reflect mode.

Similarly, you can combine **tremolo** and **harmonic** modes, **optical** and **feedback** modes and explore other interesting combinations. To exit the multi-effect mode, simply adjust the effects selector knob to a different effect mode. All saved parameters, such as CTRL and footswitch + gate (dynamic effect) values will be lost.

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When switche reverb trails wil soon as the LIGF sw	d OFF, the l be cut as IT Pedal is vitched off.	off 🕥 on	When LA LIGHT Pe act as a m switch.	TCH is OFF the dal's footswitch will nomentary effect

For example - set your LIGHT Pedal to feedback mode, turn the CTRL knob all the way up, and use the momentary footswitch to add occasional bursts of feedback into your solos.



As we all know, spring reverb units can be sensitive to shaking stages, heavy stomping and earthquakes.

That is why the LIGHT Pedal features a special shock-sensor mode!

Powered by an accelerometer chip, the LIGHT Pedal can detect sudden physical impact (measured as G force) and instantly shut off the wet signal output, as soon as a blow or a shaking motion is detected!

The sensor offers three levels of shock protection: Off, Soft and Hard.

INPUTS & OUTPUTS

The LIGHT Pedal is a MONO pedal with a ¼' jack INPUT and OUTPUT.

By default the expression input is assigned to the CTRL knob.

You can assign the expression control to any one of the following knobs - **spring**, **optical**, **drive** or **gate**. For example, to assign the expression pedal to the drive knob, unplug the LIGHT Pedal's power supply, press & hold the LIGHT Pedal's footswitch and plug the power back in. A flashing light will indicate that the Pedal is in exp. assign mode. Now simply turn the desired knob (drive) and it will be assigned to the expression pedal.

TECHNICAL SPECIFICATIONS

Product Dimensions	WLH 105 x 190 x 40 mm (4.1 x 7.5 x 1.6 in)
Product Weight	1060 g (2.3 lbs)
Spring Tank	3 Springs Type, 100 mm
Input Impedance	1 ΜΩ
Max Input Level	+6.8 dBu
Output Impedance	100 Ω
Max Output Level	+6.8 dBu
Peak Power Consumption	4 W
Mean Power Consumption	0.9 W
Power Requirements	500 mA min 9 V DC center negative 2.1 x 5.5 mm plug