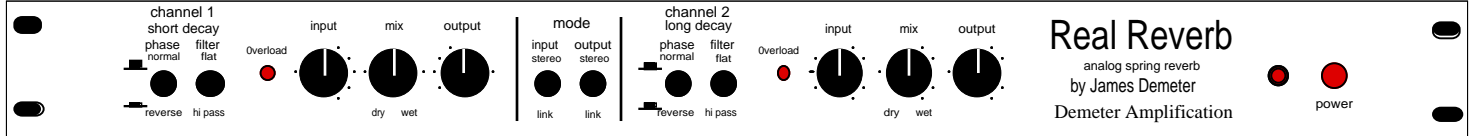


Real Reverb



Congratulations on your purchase of the Real Reverb, the spring reverb for the digital age.

For the first time a high quality real spring reverb is available for professional sound recording. The Real Reverb employs innovative new circuit technology with two Accutronics, classic, full size, 6 spring reverb tanks. The result is all the great sound of analog reverb without the problems usually associated with them.

The unit features two channels each with its own reverb tank. Channel one has a short decay time and channel two has a longer one. Each channel can be run separately or can be linked. The unit has reverb phase and low cut filter switches, as well as, input sensitivity, overload indicator, mix and output level controls for each channel. The circuit features an innovative design that for the first time keeps the frequency response of the drive and receiving transducers flat and the noise is lower than ever. The inputs and outputs are fully balanced, three pin or TRS, using Analog Devices 2142 and 2143 audio devices. The power supply is fully regulated at plus or minus 18 volts for maximum head room and quick transit attack and it uses a custom built, shielded, toroidal transformer for low noise. Each Accutronics reverb tank is individually shielded with mu metal to reduce noise from stray magnet fields. Only the finest components are used for the highest quality reproduction.

“Spring reverb for the digital age is here.”

CONTROLS

Phase: This control reverses the phase of the Effected reverb signal. Use this control when the reverb is being mixed evenly with the dry signal or when the outputs are linked, results in a bright sparkle in the reverb sound.

Filter: a hi pass/ low cut filter for the effected signal. Removes rumble and low frequency noise form the effect.

Overload indicator: Red LED will turn on when the input signal is over loading. A little flickering is fine but keep the levels down where the light is not on all the time.

Input Control: Controls the input level to the unit and is used to Stop overloading . To insure optimum signal to noise ratio, make sure this control is turned up as high as possible before clipping.

Mix Control: Controls the ratio of dry to wet (effected) signals at the out put.

Input link switch: Mixes (combines) the input signals from both input channels. If one input is being used this will distribute the signal to both channels(note as this is a mix circuit the will be a 6 dB loss in this mode turn up the input levels as needed).

Output link switch: Mixes (combines) the output singles of both channels of the real Reverb. Makes a Complex reverb sound with multiple reflections changing the phase of one of the reverb channels is most effective here. This setting also reduces EMF noise by combining the reverb transducers in a hum bucking configuration

Note: Never use this unit around strong EMF fields. Noise in the signal will result!

WARNING: connection to anything with phantom power will damage the unit!!

specifications

input impedance	10k ohms	delay/decay times	1.5 seconds short
output impedance	10 ohms		3.5 seconds long
maximum output	+28 dBv	power supply	+or- 18v regulated
signal to noise ratio	>90dB	power	115v or 230v
THD	>.1%	chassis	single space rack
frequency response	20 to 20kHz	dimensions	19' X 1.75" X 10"

Circuit layout

