SPRING 905
SPRING REVERBERATION FX
[RACK EXTENSION]
MANUAL
2020

LEGENDARY CLASSIC MOOGISH SPRING REVERBERATION EFFECT

FX device by Turn2on Software

Re Rack Extension

SPRING 905 - is an emulation of a legendary and classic Spring reverberation effect with Moogish kind of sound.

In the 1960's Spring reverberations were a very new part of the guitar sound. This was a cheap and creative solution to mimic studio reverberation effects that were avaliable in studios.

Spring reverberation is based on a tank with a few springs between two electrical transducers. The input transducer shakes the springs in response to the electrical signal. The bigger the signal, the greater the movement of the springs. This signal coming from the springs is picked up by a second transducer, which converts the motion into a new signal that is then amplified and mixed with the original signal.

Bob Moog realized that this technology could be useful in creating space and realism for electronic music. This is how the 905™ reverberation modular unit was born. This ushered in a new age of space sounds of electronic music.

In the original module, only one knob controlled the effect - the reverberation knob (mix of the dry/wet signals).

Spring 905 effect includes more controls to add variations of spring sounds, while still being based on the original 905 spring effect.

The Spring 905 effect includes Gain control (to control and increase the volume level), Mix (dry / wet control) and Decay to set the size of the gain curve as the effect of dB/sec on the processed signal. Additionally, the user can set pre-processed and post-processed signal levels. This is useful for finding the best dry and wet proportions in the operation of the mixing knob for different types of incoming signals.

The original module was a mono effect.
Spring 905 - is a true stereo effect, with Pan control of Reverberation Tails. You can set individually for Left and Right input channels pan of reverb tails.

The Character model selector sets one of 9 types of spring models: low, medium and high tension springs, the sound of springs with negative and positive resonance, resonant springs with resonant feedback, rich sound of medium and thick springs plus the sound of springs with tank vibrations.

The **SPRING 905** Rack Extension adds a new twist to an old classic spring reverb effect, with that legendary Moogish sound adding atmospheric spaces for electronic music .

Use SPRING 905 to unlock the magic world of detailed spring accents for any kind of synth sound in your electronic music
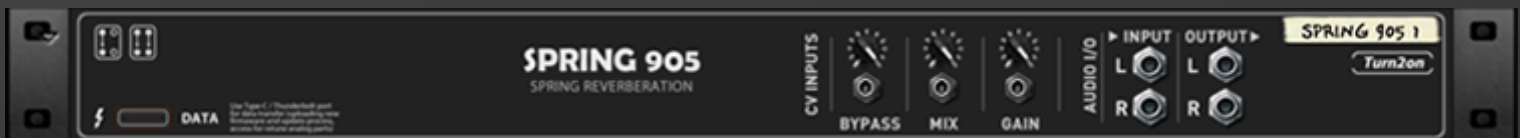
FRONT PANEL

SPRING MODELS
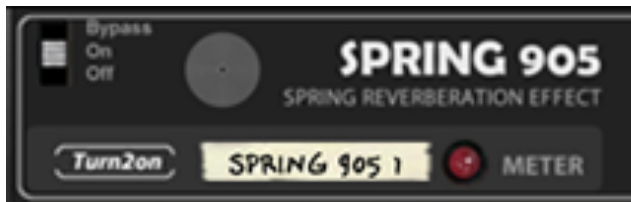
SPRING REVERBERATION CHARACTER MODEL	
LOW SPRING	Weak springs tension
MID SPRING	Average springs tension
HIGH SPRING	Strong springs tension
RESO NEGATIVE	Springs with a negative resonance
RESO POSITIVE	Springs with a positive resonance
RESONATED	Resonant springs with resonant feedback
TOTAL ONE	The rich sound of mid springs
TOTAL TWO	The rich sound of thick springs
SHAKE SPRING	Sound of springs with tank vibrations
1-15	The intensity of spring reactions (1-small , 15-maximum)
Patch Browser	Select, open and save patches of device

MAIN CONTROLS

| MAIN CONTROLS OF REVERBERATION EFFECT	
DECAY	Size of decay as dB/sec affecting the signal per selected spring reverberation model
MIX	Mix of spring reverberation processed and unprocessed incoming signals
GAIN	Controls the level of the processed signal (up to +12dB).
SOFT BYPASS	Bypass with fading of effect activity (without glitches)

OTHER

OTHER REVERBERATION CONTROL PARAMETERS

Bypass / On / Off	Standard switch with 3 modes: Bypass effect, On Effect, Off Effect
LED Meter	Show intensity of the signal
PRE CORRECT	Control the level of the incoming unprocessed signal
POST CORRECT	Control the level of the processed signal using the spring reverb effect
TAILS PAN	Set individually for Left and Right input channels pan of reverb tails. Range of Pan for each channel 0-100%. 0% = Mono centered signal. 100% = full pan for selected channel. L/R = 100 - reverb tails in Stereo mode. L = 0, R = 0 - reverb tails in Mono (signal centered) mode.

* SPRING 905 in v. 1.0 - works only in mono mode. From v.1.0.1 - device supports stereo reverb tails. To support projects that used v.1.0, set L and R = 0 (mono centered signal)
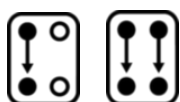
BACK SIDE PANEL
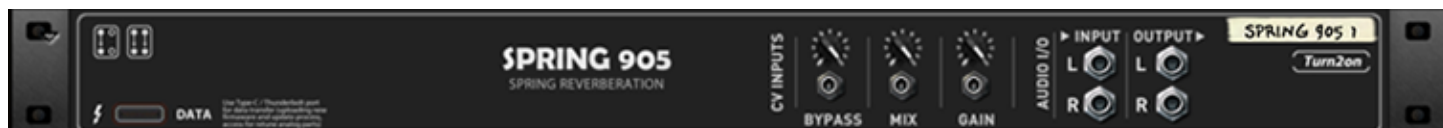
AUDIO INPUT / OUTPUT
Mono/Stereo connections for Input and Output audio signals

CV INPUTS
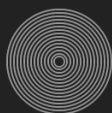Use these CV inputs to control the main parameters: Mix, Gain, Bypass,

CONNECTIONS:

Device is a True-Stereo effect.
For Mono input, the device produces mono output.
For Stereo input, the device receieve the Left and Right channels before applying the effect. The output is in Stereo.
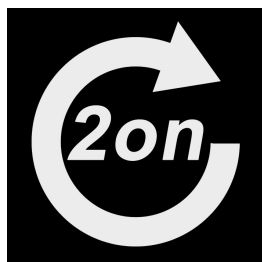
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SPRING REVERBERATION EFFECT

LEGENDARY
CLASSIC
MOOGISH
SPRING
REVERBERATION
EFFECT

Developed to use with Reason

Reason Studios

Turn2on

Rack Extension Developer

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Thanks to all beta-testers. And also: Philip Meadows [Despondo], Challis McAffee [challism]