



# Reverb Algorithms

A bank of eight, classic reverbs for your Easy Spin pedal. See [audiofab.com](https://audiofab.com) for information on the [Audiofab USB Programmer](#) and [Easy Spin pedal](#).

Where applicable, the [SpinCAD Designer](#) source file is provided. All source code (for algorithms created with SpinCAD and algorithms that are done directly in assembly) is included in the [fv1\\_programmer](#) .json file (so you can directly program your pedal with fv1\_programmer). You can download fv1\_programmer for free using the link. It incorporates an editor, assembler and disassembler, as well as supporting programming your Easy Spin pedal.

## 1. Room Reverb

- Made with SpinCAD Designer
- Updated to make Pot 2 a mix control, adjusting from 100% wet to 100% dry

### Controls

- Pot 0: Pre-delay
- Pot 1: Reverb time
- Pot 2: Mix

## 2. Hall Reverb

- Made with SpinCAD Designer
- Updated to make Pot 2 a mix control, adjusting from 100% dry to 100% wet

### Controls

- Pot 0: Pre-delay
- Pot 1: Reverb time
- Pot 2: Mix

## 3. Plate Reverb

- Coded by mdroberts1243 'at' gmail.com; minor modifications to make controls similar to other reverbs
- Derived from Jon Dattorro paper "Effect Design" -- see [Dattorro Effect Design. Part 1: Reverberator and Other Filters](#)
- Updated to make Pot 2 a mix control, adjusting from 100% dry to 100% wet

### Controls

- Pot 0: Damping
- Pot 1: Reverb time
- Pot 2: Mix



## 4. Spring Reverb

- Designed and coded by Don Stavelly © 2016 -- Please, not for commercial use (see source code)!
- Modified to remove tremolo, make reverb time and LPF shelf adjustable; pot definitions also changed
- Incorporates updates from Mick Taylor (aka Ice9) that add an Abbey road studio's R2127 filter to the input to the reverb (passes 600Hz-10kHz); changes to the reverb tone and level controls to be more in line with the Fender 6G15 schematic -- putting the tone control at the end of the reverb; and making the reverb level a dry/reverb 'mix' control, adjusting from 100% dry to 100% wet .

### Controls

- Pot 0: Tone
- Pot 1: Reverb time
- Pot 2: Mix

## 5. Shimmer Reverb (Version 6)

- Written by DrAlx (Alex Lawrow) -- based on Mick Taylor's (Ice-9's) reverb loop
- Changed pot usage to be consistent with other reverbs in bank

### Controls

- Pot 0: Amount of treble in reverb loop
- Pot 1: Reverb time (0 to 10 seconds)
- Pot 2: Shimmer level

## 6. MN3011 Reverb

- Made with SpinCAD Designer; based on a classic MN3011 reverb design
- Updated to make Pot 2 a mix control, adjusting from 100% dry to 100% wet
- Note: when set to a single repeat on Pot 1 you will hear multiple the different taps of the MN3011 as multiple repeats

### Controls

- Pot 0: Delay
- Pot 1: Repeats
- Pot 2: Mix



## 7. Room Reverb-3-4-5

- Made with SpinCAD Designer (by Digital Larry)

### Controls

- Pot 0: Delay
- Pot 1: Repeats
- Pot 2: Damping (HF loss)

## 8. Three Tap Delay Reverb

- Made with SpinCAD Designer
- Updated to make Pot 2 a mix control, adjusting from 100% dry to 100% wet
- Note: when set to a single repeat on Pot 1 you will hear multiple the three taps as multiple repeats

### Controls

- Pot 0: Delay
- Pot 1: Repeats
- Pot 2: Mix

## Revision History

Date	Version	Comments
17-Jun-2024	1.0	<ul style="list-style-type: none"><li>• First release</li></ul>
16-Dec-2024	2.0	<ul style="list-style-type: none"><li>• Incorporated updates to Spring Reverb from Mick Taylor (as above)</li><li>• Fixed constant in Plate Reverb so it will assemble with SpinAsm</li><li>• Updated all patches except Shimmer to use a Mix control (in place of a Reverb level)</li></ul>