



Easy Spin Test Programs

Program and Test Your Easy Spin



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Introduction

Once you have finished building your Easy Spin pedal, you'll need to test it to confirm that everything is operating correctly. Audiofab's Easy Spin Test Programs were developed for this purpose.

We recommend programming these into all eight Programs (or banks) of the Easy Spin pedal using the instructions found in the Audiofab USB Programmer manual.

Most of the programs were developed using SpinCAD Designer and for these we have provided the [SpinCAD Designer](#) files. We've also provided an [fv1_programmer](#) saved file containing all of the programs. The SpinCAD Designer file is useful if you want to modify the programs for your own purposes.

Test Programs

Pass Through

This program simply copies the input of the pedal to the output -- no effects or processing are applied.

Controls	Pot 0	Pot 1	Pot 2
	Not used	Not used	Not used

Made with SpinCAD Designer.

Transparency Test

When you engage the pedal using the footswitch (LED on) you should not hear any difference in sound quality or level compared to when you disengage the pedal (LED off)

Overall Noise Floor Test

You can also use an external DC power supply and disconnect the input jack to hear the noise floor of the pedal (the input is grounded when the input jack is disconnected). You must use a



Easy Spin Test Programs

DC power supply for this test because disconnecting the input jack powers off the pedal when the internal battery is used to power the Easy Spin.

Output zeros

When you engage the pedal (LED on), the FV-1 DSP outputs zero level (silence).

This is useful for testing the noise floor of the output stage.

Controls	Pot 0	Pot 1	Pot 2
	Not used	Not used	Not used

Made with SpinCAD Designer.

Harmonic Tremolo

This is a simple, two-band, tremolo program that allows you to test the three potentiometers with controls that have a clear impact on the output of the pedal when the pedal is engaged (LED on).

Controls	Pot 0	Pot 1	Pot 2
	Rate	Depth	Cutoff Freq

Cutoff Freq adjusts the split frequency between the high-band and low-band channels of the harmonic tremolo.

Made with SpinCAD Designer.

Modulated Digital Delay

This is a modulated digital delay that we developed as a demonstration. It combines a number of SpinCAD Designer blocks.

Controls	Pot 0	Pot 1	Pot 2
	Delay Time	Delay Mix	Feedback



Made with SpinCAD Designer.

Note that this uses a Coarse Delay module from an older version of SpinCAD designer that is not available in the newer release of SpinCAD Designer..

Flanger

This one is just for fun because who doesn't love a good Flanger!

Controls	Pot 0	Pot 1	Pot 2
	Rate	Width	Feedback

Made with SpinCAD Designer.

Chorus

Another classic made using a SpinCAD Designer block that implements chorus using the 4-voice Chorus block.

Controls	Pot 0	Pot 1	Pot 2
	Rate	Depth	Voice

Made with SpinCAD Designer.

The Voice control adjusts the level of the longer delayed voices (three and four).

Reverb

A reverb made with the Adjustable Reverb block from SpinCAD.

Controls	Pot 0	Pot 1	Pot 2
	Reverb Time	Filter / Cutoff	Reverb Level

Made with SpinCAD Designer.



Spring Reverb + Tremolo

This is a program developed by Don Stavely (© 2016 Don Stavely and is not for commercial use!) It uses a large bank of spectral delay filters to implement a wonderful spring reverb emulation. It also incorporates a tremolo with rate and depth controls.

This is a very demanding program that uses all of the instruction cycles available. It is an ideal “stress test” for the pedal.

Controls	Pot 0	Pot 1	Pot 2
	Reverb Level	Tremolo Rate	Tremolo Depth

Source: Downloaded from the [Spin Semiconductor forum](#)

Terms

Other than this documentation, Audiofab does not provide any direct support for our projects. You will need some pedal building experience before building one of our pedals.

No refunds or replacements are offered unless it can be shown that our documentation or the circuit contain a reproducible error.

You are free to use our projects for any purpose, provided you retain our copyright notices and give appropriate attribution to Audiofab.

Revision History

Version	Date	Comments
1.0	August 14, 2023	Initial release