



# Spider Valve MkII



## **Advanced Guide Addendum Spider FX Infusion (Firmware version 1.50, or later)**

Spider Valve MkII 112, 212 and HD100  
Electrophonic Limited Edition



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## OVERVIEW

Welcome to the *Spider Valve MkII Advanced Guide Addendum for Spider FX Infusion*. This Addendum is provided as a supplement to the original *Spider Valve MkII Advanced Guide & Pilot's Handbook*, containing details of effects and features added with the Spider Valve™ MkII amplifier's Spider FX Infusion update (firmware version 1.50, or later). Spider FX Infusion is offered as a free firmware update for all Spider Valve MkII amplifiers. Registration of your Spider Valve MkII is required to obtain this update.

For information on using Line 6 Monkey for firmware updates, please see the *Spider Valve MkII Advanced Guide*, available from <http://line6.com/manuals/spidervalvemkii/>.

### Spider FX Infusion Features

Installation of the free Spider FX Infusion update adds an outstanding assortment of 28 new effects Models, as well as several enhancements to your Spider Valve MkII amplifier's existing Models, controls and FBV™ MkII performance! Further, this update adds support for the new free Spider Valve MkII Edit editor/librarian software. With a Spider Valve MkII amp connected to your computer via a Line 6 FBV™ MkII controller or MIDI connection, the Spider Valve MkII Edit software provides even easier tone tweaking, as well as features to manage and store a limitless number of customized presets on your computer.

Please see the additional documentation for the Spider Valve MkII Edit software for more information, available from <http://line6.com/manuals/spidervalvemkii/s>.

### FBV MkII Pedal Calibration

Use of your FBV Shortboard™ MkII or FBV Express™ MkII controller is, of course, fully supported with all the new Spider FX Infusion Models! Once you've installed the Spider Valve MkII firmware version 1.50 (or later), it is required that you calibrate the pedal of your FBV MkII device. Please see your *FBV MkII Pilot's Guide* or the *FBV MkII Advanced User Guide* for calibration instructions.

Read on for details on the new effects Models provided in the Spider FX Infusion update!



# SPIDER FX INFUSION MODELS

The Spider FX Infusion update adds a plethora of new effects Models, which you'll find nestled among your existing SmartFX, Reverb and Wah Models. Simply use the amp's front panel controls as you have been, and use Edit Mode to access the individual parameters of any effect for customizing things further.

## SmartFX

The following Models are added within your existing FX-1, FX-2 and FX-3 SmartFX. All your original primary and secondary SmartFX “factory” Models still remain indicated by the amber and blue LED indicators. All customized factory Models and the new Spider FX Infusion Models are indicated by a purple LED indicator. Turn the Presets knob when a SmartFX Model name is displayed and you'll find these new Models after the primary & secondary Models within each “swoosh” category. Press the Presets knob to enter Edit Mode and go to the **FX1**, **FX2** or **FX3** menu, where you can alternatively use the **Model - Select** option to choose from among the list of FX Models, as well as access any Model's parameters. To follow are all the new SmartFX Models, as they appear in the LCD display.

### FX-1 - Gain



**FX-1 - Auto**



**FX-2 - Chorus**



**FX-2 - Phaser**



**FX-3 - Delay**



Note: The new Dual Delay model provides two delays only when positioned in the “Pre” position. The Feedback level can be adjusted individually using the Edit Mode “1 Fdbck” and “2 Fdbck” parameters. When in the “Post” position, only one delay is functional, adjusted using the “2 Fdbck” parameter, and the “Offset” parameter has no function.

## FX-3 - Sweep Echo



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## Reverb

Several luscious Reverb Models are also added. You'll still see your original primary & secondary factory Models by turning the Presets knob when the Reverb Model name is displayed in the LCD - and now you'll see these additional Reverb Models too. Alternatively, press the Presets knob to enter Edit Mode, go to the **REV** (Reverb) menu and use the **Model - Select** option to choose from among all Reverb Models.



### Wah

But wait, that's not all... You'll also see a new Wah menu where you can now select from among the factory Vetta Wah, and several additional, classic Wah Models! Press the Presets knob to enter Edit Mode and use the L/R arrows on the 4-way Nav Disc to access the **WAH** menu, found between the **BOOST** and **VOL** menus. All the Wah Models are available for your choosing via the **Model - Select** option.

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### FX Model On/Off

A new feature has been added with this update to allow you to enable/disable effects directly from the amp's front panel - very handy when you want to quickly audition some amp settings with & without the current FX active! Press and hold the **Manual** button, then press the **Channel A, B, C** or **Quick Loop** buttons, as listed here:

- **Manual + Channel A** buttons toggle FX-1
- **Manual + Channel B** buttons toggle FX-2
- **Manual + Channel C** buttons toggle FX-3
- **Manual + Quick Loop** buttons toggle Reverb



# APPENDIX A: MIDI

In this chapter we've provided reference tables of MIDI CC and Program Change numbers that control basic functions of your Spider Valve™ MkII, revised to include all standard factory Models, plus all Spider FX Infusion Models. MIDI connectivity and functionality is still the same as covered in the *Spider Valve MkII Advanced User Guide*.

For additional MIDI information, please see the *Spider Valve MkII MIDI Implementation Guide*, available from <http://line6.com/manuals/spidervalvemkii/>.

## MIDI CC Reference Table

MIDI CC REFERENCE				
Parameter	CC #	Min.	Max.	Notes
Wah Position	4	0	127	
Volume	7	0	127	
Amp Model w/ defaults	11	1	16	See Amp Models table
Amp Model w/o defaults	12	1	16	See Amp Models table
Amp Drive	13	0	127	
Amp Bass	14	0	127	
Amp Mid	15	0	127	
Amp Treble	16	0	127	
Amp Channel Volume	17	0	127	
Reverb Mix	18	0	127	
Gate Enable	22	0	3	0=Off; 1=Gate; 2=NR; >=3=Gate+NR
Gate Threshold	23	0	127	Gate threshold: 0-31= -96dB, 32 to 127 = -97 to 0dB in 1dB steps
Gate Decay	24	0	127	0 to 100%
Stomp On/Off	25	0	127	0-63=Off; 64-127=On
Boost On/Off	26	0	127	0-63=Off; 64-127=On
Stomp SmartFX	27	0	127	Swoosh position

**MIDI CC REFERENCE**

Parameter	CC #	Min.	Max.	Notes
Delay On/Off	28	0	127	0-63=Off; 64-127=On
Delay SmartFX	30	0	127	Swoosh position
Delay Mix	34	0	127	0 - 100%
Reverb On/Off	36	0	127	0-63=Off; 64-127=On
Reverb Model Select	37			0=Off; See Reverb Models table for values
Reverb Pre/Post	41	0	127	0-63=Pre; 64-127=Post
Volume Pedal Max.	45	0	127	Vol or Wah can control Pitch Glide
Volume Pedal Min.	46	0	127	
Volume Pre/Post	47	0	127	0-63=Pre; 64-127=Post
Mod On/Off	50	0	127	0-63=Off; 64-127=On
Mod Mix	56	0	15	#11=Default Settings #12=Model Only
Mod Pre/Post	57	0	127	0-63=Pre; 64-127=Post
Mod Model Select	58			0=Off; See FX-2 Models Table for values
Tap Tempo	64	0	127	Value ignored
Tuner Mode On/Off	69	0	127	0-63=Off; 64-127=On
Pitch Glide On/Off	72	0	127	0-63=Off; 64-127=On
Stomp Pre/Post	74	0	127	0-63=Pre; 64-127=Post
Stomp Model Select	75			0=Off; See FX-1 Models table
Delay Pre/Post	87	0	127	0-63=Pre; 64-127=Post
Delay Model Select	88			0=Off; see FX-3 Models table
Mod SmartFX	96	0	127	Swoosh position

## Amp Model Select

A MIDI CC of 11 Selects the Amp Model with Default settings. A CC of 12 selects the Amp Model only, with no change to the Tone controls, FX or Channel Volume.

AMP MODELS (MIDI CC 11 or 12)	
Value	Amp Model Name
1	Clean Amber
2	Clean Blue
3	Twang Amber
4	Twang Blue
5	Class A Amber
6	Class A Blue
7	Blues Amber
8	Blues Blue
9	Crunch Amber
10	Crunch Blue
11	Hi Gain Amber
12	Hi Gain Blue
13	Metal Amber
14	Metal Blue
15	Insane Amber
16	Insane Blue

With your MIDI controller device or MIDI track set to transmit MIDI CC 11, select an Amp Model by entering a value of 1 through 16. A corresponding Cab Model will automatically load with the Amp Model.

Alternatively, when using CC 12 to select Amp Models, the current settings for the selected Amp's Drive, Bass, Mid, Treble, FX and Ch Vol controls remain unchanged.

## FX Model Select

Use the MIDI CC numbers indicated in the tables below to select the Models for FX-1, FX-2, FX-3 and Reverb. For example, CC 58 with value 10 is U-Vibe.

FX-1 MODELS (MIDI CC 75)		
Value	FX Model Name	Swoosh
0	Off	
1	Red Comp	Gain
2	Fuzz Pi	Gain
22	Blue Comp	Gain
30	Vetta Juice	Gain
31	Boost + EQ	Gain
33	Screamer	Gain
27	Killer Z	Gain
32	Octave Fuzz	Gain
21	Bass Overdrive	Gain
3	Auto Wah	Auto
4	Auto Swell	Auto
35	Clean Sweep	Auto
5	Pitch Glide	Pitch
6	Smart Harmony	Pitch

FX-2 MODELS (MIDI CC 58)		
Value	FX Model Name	Swoosh
0	Off	
7	Sine Chorus	Chorus
8	L6 Flanger	Chorus
39	Analog Chorus	Chorus
45	Square Chorus	Chorus
44	Random Chorus	Chorus
41	Jet Flanger	Chorus
43	Expo Flange	Chorus
9	Phaser	Phaser
10	U-Vibe	Phaser
47	Lumpy Phase	Phaser
50	Warble-Matic	Phaser
11	Opto Trem	Tremolo
12	Bias Trem	Tremolo

FX-3 MODELS (MIDI CC 88)		
Value	FX Model Name	Swoosh
0	Off	
13	Digital Delay	Delay
14	Analog w/Mod	Delay
51	Analog Delay	Delay
52	Dual Delay	Delay
15	Tape Echo	Tape Echo
16	Multi-Head	Tape Echo
17	Sweep Echo	Sweep Echo
18	Reverse	Sweep Echo
55	Bubble Echo	Sweep Echo

REVERB MODELS (MIDI CC 37)	
Value	Reverb Model Name
0	Off
19	Lux Spring
20	Vintage Plate
58	King Spring
63	Large Plate
67	Small Room
68	Tiled Room
60	Chamber
64	Medium Hall
62	Large Hall

Accessing the Reverb Models is the same as accessing Amp Models. Insert the appropriate CC for Reverb Model Select, and then a value to select the desired Model. For example, configure your MIDI controller device or MIDI track to transmit CC 37 for the Reverb Model Select function, and a value of 20 to call up the Vintage Plate Reverb Model.

## Preset Select

Spider Valve Mk II User Presets are comprised of 32 Banks of A, B, C & D Channels. To call up a particular User Preset, insert a Program Change value of 0-127. Value “0” loads Preset 1A, “1” loads 1B, “4” Loads 2A, “5” loads 2B, and so on, up to value “127” for 32D.\*

PRESET SELECT					
Bank No.	Bank MSB	Bank LSB	Program Range	Program Bank	Program No.
0	0	0	0-127	User Presets	*1A-32D
16256	0	1	0-15	Amp Models	
16383	127	127		Edit Buffer	