



# Instruction Manual

## Zig Zag Delay

**ZIG ZAG**

1/4    normal    444 ms    -100 %    1/8    normal    222 ms    100 %  
 ZIG TIME    ZIG TYPE    ZIG DLY    ZIG PAN    ZAG TIME    ZAG TYPE    ZAG DLY    ZAG PAN

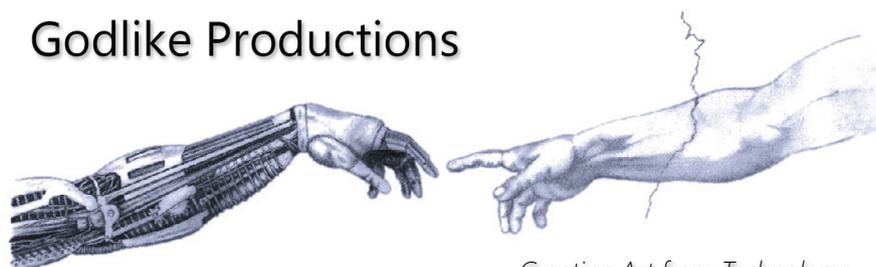
**FEEDBACK**

50 %    -3.0 dB    -3.0 dB    -3.0 dB    1/4    normal    444 ms    100 %  
 WET    ZIG VOL    ZAG VOL    FEEDBACK    FB TIME    FB TYPE    FB DELAY    FB PAN

**ABOUT**

A mixer with forward and reverse delays fed into an independent delay loop. Summed stereo input, stereo output. MIDI Syncable with independent pans. Built by Godlike Productions [godlike.com.au](http://godlike.com.au)

Godlike Productions



*Creating Art from Technology*

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## Caution

Ensure you have backed up all algorithms and other data of your H9000 prior to use of this product. You use these algorithms, chains, presets, sessions and/or other content entirely at your own risk and to all extents allowable under the law of Western Australia, Godlike Productions is not liable for loss of damage, direct, consequential or otherwise.



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# Getting Started

- This manual is for a custom algorithm for the Eventide H9000 available at <https://godlike.com.au/index.php?id=420>. The Zig Zag Delay algorithm can be downloaded either as an algorithm that you can import from a USB drive (FAT32 formatted) onto your H9000 from the front panel, via Emote, or that can be uploaded via VSIG 3.3.3 or later.
- There will also be a copy of this manual in PDF format. If you lose your copy of the files, please contact us at <https://godlike.com.au/index.php?id=contact> and we will be happy to send you another copy, or re download the algorithm from the link above. This manual will be available within the zip file.

## Installation and Activation

### Method 1 - Install from USB

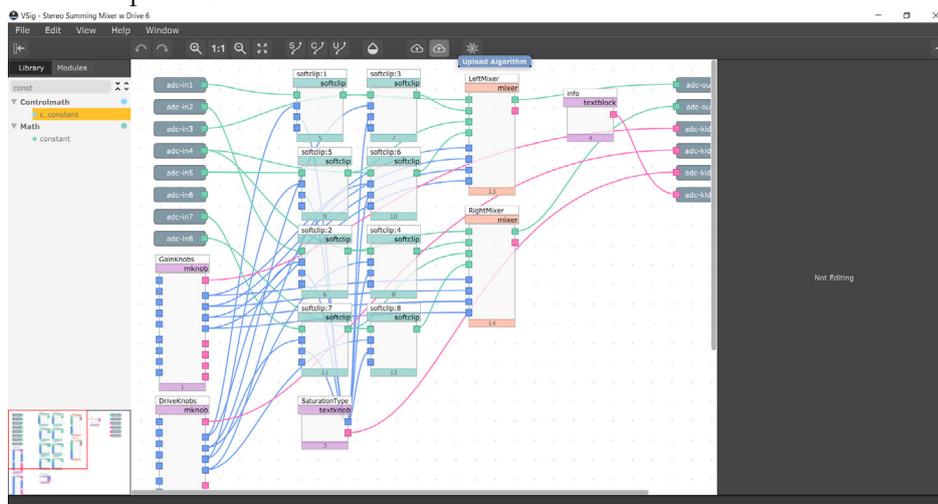
- Unzip the Algorithm and any presets. Copy Zig Zag Delay\_3651628845.9ka as well as the .9kp files to your USB drive and insert into your H9000.
- Long press the front panel Save/Import button; the Load Options screen will appear.
- Use the cursor up/down buttons or the wheel to navigate to Algorithms and press the Enter Key.
- Use the cursor up/down keys or wheel to select the Zig Zag Delay algorithm and then press the SELECT Key.
- If you do not wish to load presets, then you can use this algorithm as is. If you wish to use the presets, you will need to repeat this procedure until this algorithm appears as algorithm 10156, or you can install it and use our H9000 Preset Tool to renumber your Presets to the location where you have installed this algorithms. If you have installed to 10156, copies at lower numbers can be safely deleted using Emote (see below).
- After you have used the Preset Tool, open the .9kp files from your USB drive using the same procedure.

### Method 2 - Install from Emote

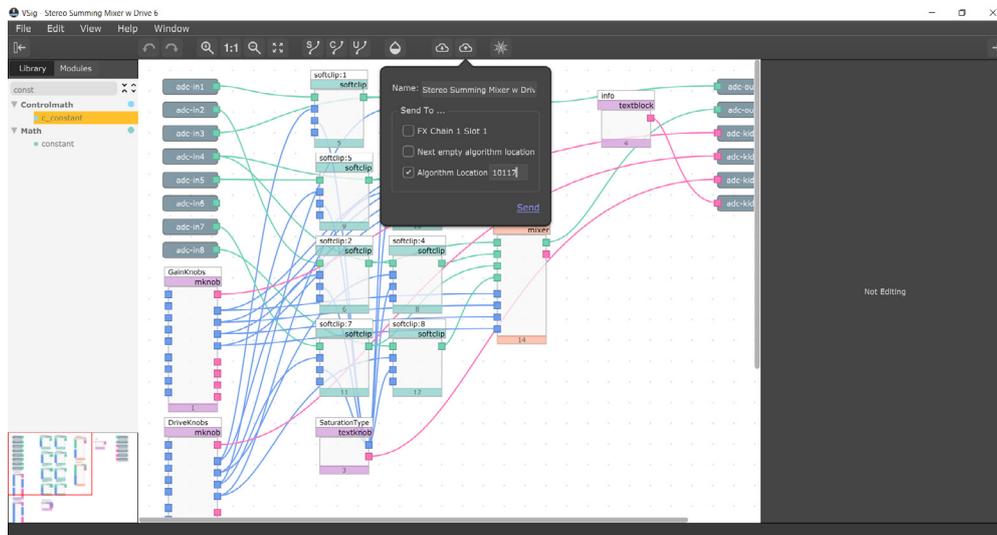
- Unzip the Algorithm and any Presets.
- In Emote, select Algorithm -> Import
- Navigate to the unzipped Zig Zag Delay\_3651628845.9ka file and press open.
- If you do not wish to load presets, then you can use this algorithm as is. If you wish to use the presets, you will need to repeat this procedure until this algorithm appears as algorithm 10156, or install it, and then use our H9000 Preset Tool.
- You can safely delete lower numbered algorithms used to bump this to 10156 by right clicking on the lower numbered algorithm and selecting Delete. Continue doing this until the only copy of Zig Zag Delay is the one loaded into slot 10156.
- To load the presets select Preset and then Open. Navigate to the .9kp preset files and press Open.

### Method 3 - Install using VSIG

- *Note that not all algorithms are available as VSIG files. If this algorithm is available as a VSIG its file name will appear below.*
- File: not available for this algorithm
- Unzip the .sig2 file.
- Open this file within VSIG
- Ensure that VSIG is connected to your H9000
- Select the Upload Button



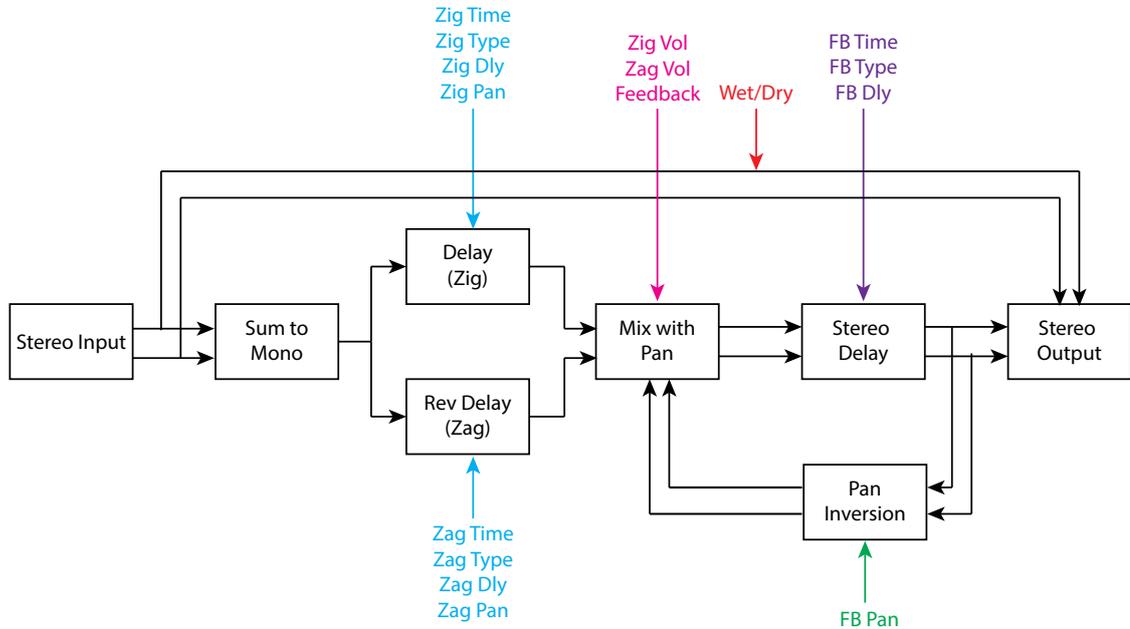
- Select Algorithm Location and type “10155” into the text box. Press Send.



- If you prefer, you can load it to any location, and take note of the location and then use our H9000 Preset Tools.
- Presets cannot be loaded via VSIG. Install these either from Emote or from the front panel via USB.

# Setting Things Up

The diagram below shows the signal flow of this algorithm.



## Parameters

Parameter	Description	Range
Zig Time Zag Time FB Time	The delay time in note lengths. Ensure that Tempo Mode is selected to get this algorithm working correctly.	4 Bar, 2 Bar, 1 Bar, 1/2 Note, 1/4 Note, 1/8 Note, 1/16 Note, 1/32 Note
Zig Type Zag Type FB Type	This modifies the Times above.	Normal, Dotted, Triplet
Zig Dly Zag Dly FB Dly	This is the manual delay time. These are overridden in Tempo Mode by the Time and Types. The maximum that this can ever be is 10,000 ms.	0 - 10,000 ms Default 300ms
Zig Pan Zag Pan	The pan position of the Zig and Zag delays. These positions are preserved into the feedback portion.	-100% to 100% Default: -100% (Zig) 100% (Zag)

Parameter	Description	Range
FB Pan	This is different to the Zig and Zag Pans. This is essentially a width parameter. Setting this to 100% preserves the Zig and Zag pans into the feedback delay. -100% inverts the pans on each feedback pass. 0% will centre the panning for the feedback delay.	-100% to 100% Default: 100%
Wet	At 0% wet, the dry stereo signal is passed straight to the output. At 100% no dry signal goes to the outputs, on the delayed signal.	0 - 100% Default: 50%
Zig Vol Zag Vol FB Vol	The volumes of the Zig and Zag delays and the Feedback volume into the stereo mixer. 0dB of FB will loop indefinitely and will eventually build to very loud volumes. The scales on these knobs is tapered with better resolution near unity gain (0dB)	-100dB to 0dB

- This algorithm provides a forward and reverse delay that can be independently controlled and panned. This effect creates useful and unique pushing/pulling types of delay not available with other delay algorithms.
- For a demo of this algorithm visit <https://youtu.be/VaiSAUNR7Xk>