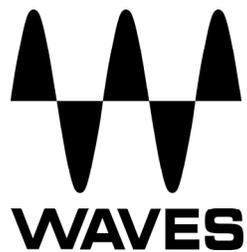


WAVES  
**MANNY MARROQUIN**  
**DELAY**  
User Guide



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# Chapter 1 – Introduction

## 1.1 Welcome

Thank you for choosing Waves! In order to get the most out of your new Waves plugin, please take a moment to read this user guide.

To install software and manage your licenses, you need to have a free Waves account. Sign up at [www.waves.com](http://www.waves.com). With a Waves account you can keep track of your products, renew your Waves Update Plan, participate in bonus programs, and keep up to date with important information.

We suggest that you become familiar with the Waves Support pages: [www.waves.com/support](http://www.waves.com/support). There are technical articles about installation, troubleshooting, specifications, and more. Plus, you'll find company contact information and Waves Support news.

## 1.2 Product Overview

The Waves Signature Series is our exclusive line of application-specific audio processors, created in collaboration with the world's top producers, engineers, and mixing engineers. Every Signature Series plugin has been precision-crafted to capture the artist's distinct sound and production style. For experienced and aspiring audio professionals alike, the Waves Signature Series allows you to dial up the sound you're looking for quickly, without interrupting your creative flow.

Four-time GRAMMY® award-winning mixing engineer Manny Marroquin takes the Waves Signature Series to a new level with six hybrid plugins that bring his unique workflow to *your* studio. Alongside his personalized versions of tried-and-true favorites like EQ, reverb, delay and distortion, Manny introduces the innovative new Tone Shaper and Triple D plugins which are destined to become mixing essentials as well. Combining inspiration from his impressive collection of unique and boutique hardware, together with the fruits of his imagination, the Manny Marroquin Signature Series gives you direct access to the same tools Manny uses to mix hit after hit after hit.

The Manny Marroquin Signature Series consists of six plugins:

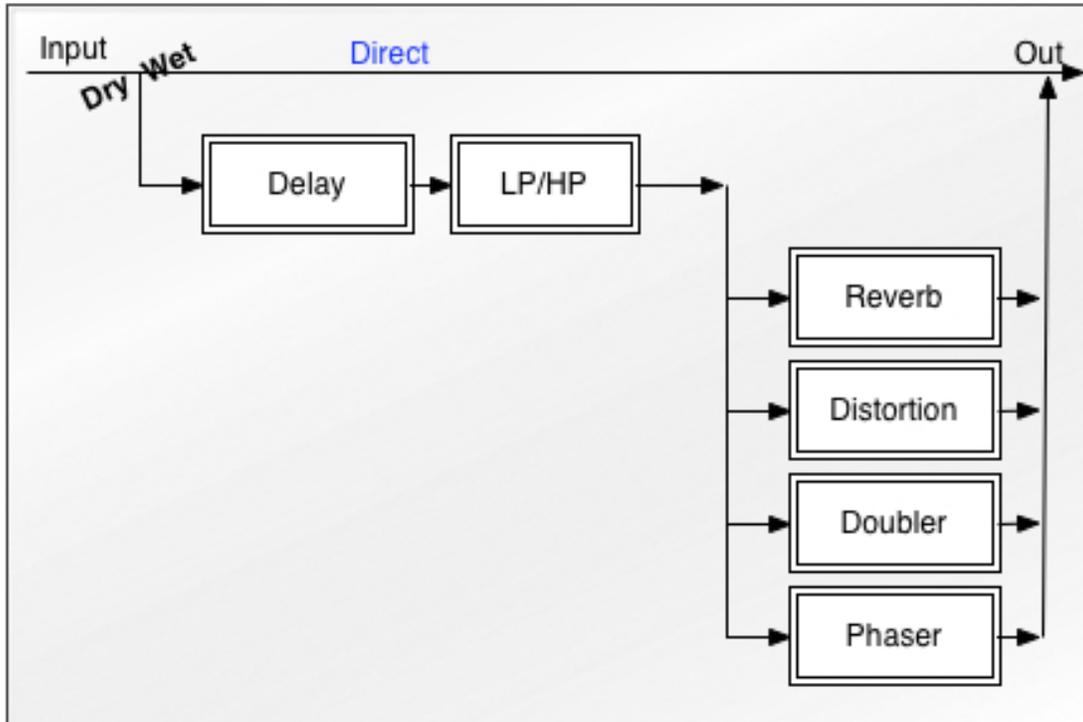
- **Manny Marroquin EQ** – A four-band equalizer, with each cutoff point inspired by a different hardware unit that Manny uses for that range.
- **Manny Marroquin Reverb** – 18 of Manny’s favorite reverbs in one plugin, topped off with a bit of EQ, compression, phasing and distortion.
- **Manny Marroquin Delay** – A delay plus multi-effect plugin with phaser, reverb, distortion and harmonizer for enhanced depth and groove.
- **Manny Marroquin Distortion** – A delicious, crunchy-style distortion for those times when you need to get down and dirty.
- **Manny Marroquin Triple D** – 3 “Ds” (DeEsser, DeHarsher, DeBoxy) that make it easy to remove those unpleasant – even painful – frequencies.
- **Manny Marroquin Tone Shaper** – Parallel compression per four frequency ranges plus EQ and ‘secret ingredients’ for added body and richness.

### 1.3 Concepts, Terminology & Interface



1. **Delay Section** includes all the controls which affect the actual delay process in the plugin
2. **Effects Pallet Section** includes all the controls which affect the additional effects.

*Signal Flow*



## 1.4 A Few Words from Manny Marroquin

“Delay is all about depth. It’s one of the key elements in almost every mix I do. Plus, it enhances the groove, and creates layers of sound which can make a mix more exciting and multi-dimensional. It usually takes me five or six different plugins to get me those delay sounds; I wanted to put them all into one. We’ve included all the little extras that I always use to make the sound even more interesting: Some nice reverb, a little bit of distortion, a doubler/harmonizer to fatten things up plus a phaser, when you want to add some movement or really go wild.”

## 1.5 Components

WaveShell technology enables us to split Waves processors into smaller plugins, which we call **components**. Having a choice of components for a particular processor gives you the flexibility to choose the configuration best suited to your material.

The Waves MannyM Delay plugin has two components:

- MannyM Delay – Mono-to-Stereo
- MannyM Delay – Stereo

## 1.6 WaveSystem Toolbar

Use the bar at the top of the plugin to save and load presets, compare settings, undo and redo steps, and resize the plugin. To learn more, click the icon at the upper-right corner of the window and open the WaveSystem Guide.

## Chapter 2 – Controls



**INPUT** controls the level into the plugin.

Range: -18 – 18 dB

**MODE** determines if delay time is set in milliseconds or synchronized to host tempo.

Range: MS, Host

**DELAY L/DELAY R** sets the delay time. When Host Sync mode is selected, a pull-down menu appears, enabling direct selection of the desired note duration.

Ranges:

- MS: 0 – 2000 milliseconds (in 4 ms increments)
- Host mode: 1/64 Triplets – Whole Note

*Please note: Delay is limited to 2 seconds. Therefore, at tempos below 120 BPM, Whole Note duration is not available.*

**FDBK L/FDBK R** determines the amount of feedback per channel.

Range: 0 – 100%

**LINK** determines whether or not channel settings are linked or independently controlled. When Link Mode is selected (On), left channel settings are applied to the right channel as well. Once linked, previous right channel settings are not restored when unlinked.

Range:

- On (left and right channel settings are linked)
- Off (left and right channel settings are independently controlled)

**DRY/WET** controls the balance between the direct and Delay + HP/LP paths. (See *signal flow diagram*.) Reverb, Distortion, Doubler and Phaser are not affected, so that they may be used without the Delay if desired.

Range: 0 – 100%

**HP/LP** controls the cutoff frequency of the HP and LP filters. This process is on the Delay path, so if you apply a HP or LP and set the Dry/Wet to 0, the HP/LP will not affect the dry signal.

HP: 16 Hz – 21357 Hz, Off (all the way counter-clockwise)

LP: 21357 Hz – 16 Hz, Off (all the way clockwise)

**HP/LP LINK** inversely links HP and LP controls to create a simultaneous opening and closing filter effect on the delay. For example: When HP/LP Link is selected, if the LP is set to 8 kHz and the HP is set to 150 Hz, moving the HP to 600 Hz will simultaneously move the LP to 1990 Hz, creating a closing filter.

*Please note: Once the controls reach the same frequency (HP = 1 kHz and LP = 1 kHz), the controls lock and may not be moved forward, only backward.*

**VERB SIZE** controls the size of the reverb.

Range: 0 – 100

**VERB LEVEL** controls the level of the reverb.

Range: 0 – 100

**VERB ON/OFF** turns the reverb on or off.

Range: On, Off

**DISTORTION SEND** controls the level of the signal going into the distortion. Higher levels will result in a more distorted signal.

Range: 0 – 100

**DISTORTION WIDTH** controls the position of the distortion in the stereo image. (0 = mono; 100 = full stereo)

Range: 0 – 100

**DISTORTION LEVEL** controls the level of the distortion output.

*Please note: This affects only the level of the distorted signal in the overall mix, not the amount of the distortion.*

Range: 0 – 100

**DISTORTION ON/OFF** turns the distortion on or off.

Range: On, Off

**DOUBLER DETUNE** controls the detune amount.

Range: -100 – 100 (in cents)

**DOUBLER LEVEL** controls the level of the doubler.

Range: 0 – 100

**DOUBLER ON/OFF** turns the doubler on or off.

Range: On, Off

**PHASER RATE** controls the modulation rate of the phaser.

Range: 0 Hz – 20 Hz

**PHASER LEVEL** controls the level of the phaser.

Range: 0 – 100

**PHASER ON/OFF** turns the phaser on or off.

Range: On, Off

**MONITOR** selects the plugin output monitoring configuration.

Range: Left Side Only, Stereo, Right Side Only

**OUTPUT** controls the plugin output level.

Range: -18 – 18 dB