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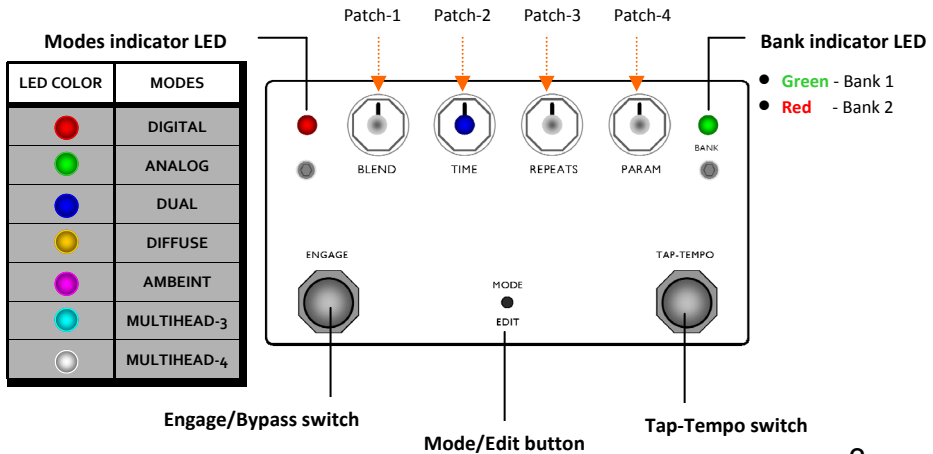
CHAPTER 1 - Overview

What's new in Clockwork V3 :

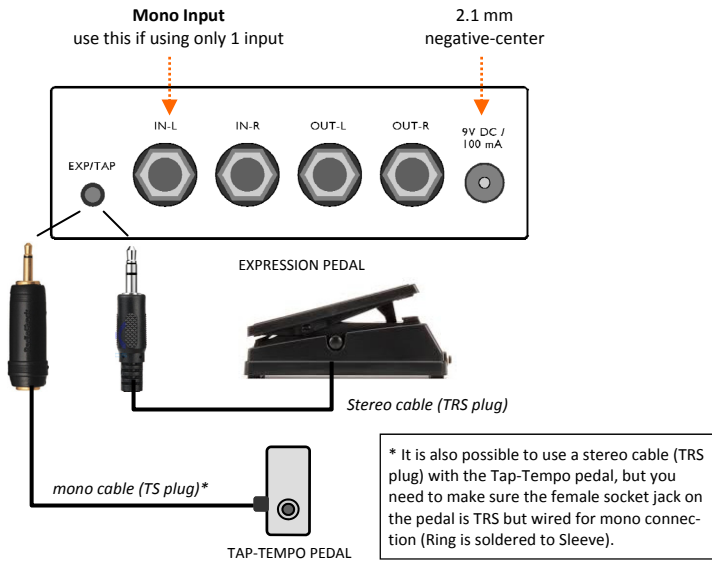
- Expression Pedal / Tap-Tempo pedal input
- Kill-Dry function
- Preset system is now decoupled from algorithms, which means it's now possible to store any algorithms to any preset location.
- 2 new algorithms *Dual* and *Diffuse*.
- Multi-colored LED uniquely identifies algorithms.
- Tap-Tempo can now be initiated instantly, there is no need to tap 4 times.
- New artwork.

Same compact footprint as Clockwork V2.

Illuminated knobs indicates patch number : 1-2-3-4



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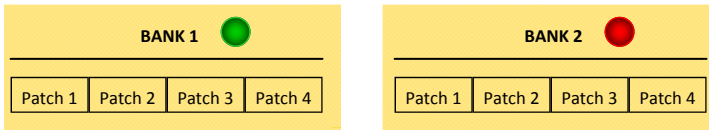
CHAPTER 2 - Operation

From this point onward :

- [Engage] will refer to the Engage footswitch,
- [Tap-Tempo] will refer to the Tap-Tempo switch, and
- [Mode/Edit] will refer to the Mode/Edit push button

Preset System

The 8 preset locations are organized in 2 banks, where each bank contains 4 patches.



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LOAD PRESET

1. Hold [Tap Tempo] until the Tempo indicator LED (Bank LED) stops flashing.
2. Tap [Tap Tempo] as many times as needed to reach the desired preset location.
3. Tap [Engage] once to load the selected preset.

Presets are selected by going through each location in the 'Up' direction (1, 2, 3, ...), while going through these steps the sound does not get updated until selection is confirmed by pressing [Engage].

Spillover: Reverb tail will be preserved when changing preset if and only if both source and destination preset contains the same algorithm.

LOAD A PRESET IN A DIFFERENT BANK

1. Hold [Tap Tempo] until the Tempo indicator LED (Bank LED) stops flashing.
2. Press [Engage] and [Tap Tempo] together once <— *this toggles the bank.*
3. Tap [Tap Tempo] as many times as needed to reach the desired preset location.
4. Tap [Engage] once to load the selected preset.

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SAVE PRESET

1. Hold [Tap Tempo] until the Tempo indicator LED (Bank LED) stops flashing.
2. Tap [Tap Tempo] as many times as needed to reach the desired preset location.
3. Hold [Engage] until the Preset LED flashes 3x.

Note : You can skip step 1 & 2 if you are already at the desired preset location.

SAVE A PRESET IN A DIFFERENT BANK

1. Hold [Tap Tempo] until the Tempo indicator LED (Bank LED) stops flashing.
2. Tap [Engage] and [Tap Tempo] together once <— *this toggles the bank.*
3. Tap [Tap Tempo] as many times as needed to reach the desired preset location.
4. Hold [Engage] until the Preset LED flashes 3x.

BYPASS OR ENGAGE

1. Tap [Engage] once.

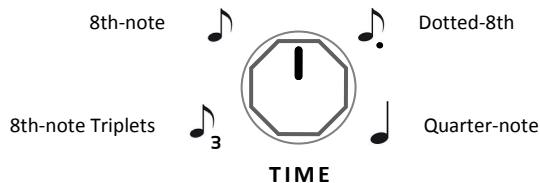
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MODES

1. Tap [Modes / Edit] to browse through the 7 modes / algorithms.

SUBDIVISION

You may set the subdivision using the TIME knob.

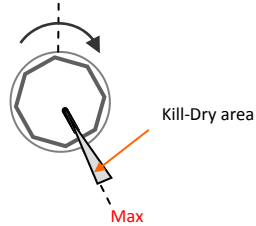


Set the knob's cursor to point to any one of the four subdivision symbols, do tap-tempo and the resulting tempo shall be subdivided as per indicated subdivision.

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CHAPTER 3 - Kill Dry Function

Kill-Dry function is activated by turning the BLEND knob all the way to maximum value (clockwise direction).



Note : This is not a *permanent* kill-dry function, it is active only when the pedal is engaged - the dry signal will be back on when you bypass the pedal

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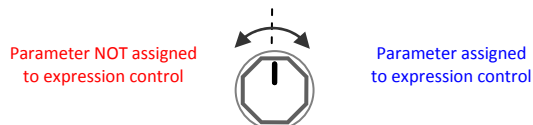
CHAPTER 4 - Assigning Parameters for Expression Control

You can assign up to 4 parameters to be controlled by the expression pedal, and these assignments can be specified on per-preset basis. You can make changes to the assignment in the EDIT mode.

Entering EDIT mode : Press and hold [Mode / Edit].

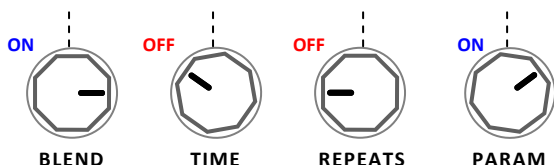
When the Modes LED starts blinking the pedal has entered EDIT mode where you can make changes to the parameter assignment.

In EDIT mode the four knobs act like switches, turning the knobs to anywhere *above* the 12 o'clock direction assigns that knob for expression control, and turning the knobs to anywhere *below* the 12 o'clock direction disables expression control on that knob.



for example you want to assign the expression pedal to control the Blend and Param parameter : in EDIT mode turn the Blend and Param knobs to anywhere *above* the 12 o'clock direction and turn all the other knobs to anywhere *below* the 12 o'clock direction .

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Changes will immediately take effect when the knobs are turned so you can go ahead and audition the parameters assignment that suits your needs. After you are satisfied with the assignment you can save it into the current preset by holding [ENGAGE] until the preset LED flashes 3x. Or if you decide not to save any changes you can simply exit the EDIT mode, no changes will be saved.

Exiting EDIT mode : Press and hold [Mode / Edit].

When the Modes LED stops blinking the pedal has exited EDIT mode and you can use the pedal normally again.

IMPORTANT : At power up the pedal will detect the presence (or absence) of an expression pedal at the EXP/TAP input jack. If it sensed that nothing is connected it will disable the expression function *for as long as the power stays on. This means you must recycle the power anytime you plug or unplug an expression pedal cable into the EXP/TAP input jack.*

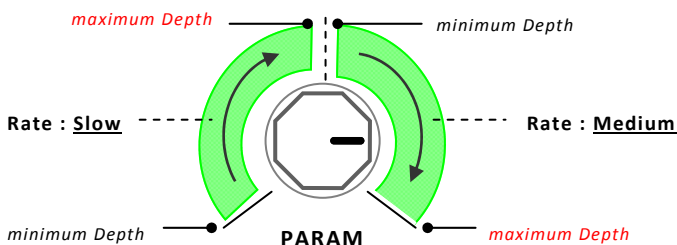
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CHAPTER 5 - Modes / Algorithms

● Digital

This is a pristine digital delay with modulation. A touch of tone-shaping is applied to keep the repeats from being 'sterile cold', while retaining clarity and definition. Delay time range : 960 ms.

PARAM knob controls both modulation *Depth* and *Rate*. The 1st half of the knob travel gives *slow* modulation rate, and the last half gives a *faster* rate. The modulation Depth is fully adjustable within each region (modulation depth increases as the knob is turned clockwise). Thus you have modulation with adjustable depth and a choice if two different rates.

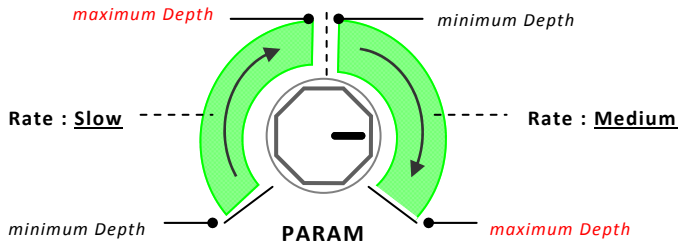


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● Analog

This mode has a special voicing that mimics that of an analog delay. The warm and lush repeats work great to thicken your guitar sound without getting in the way of the dry sound. Delay time range : 960 ms.

PARAM knob controls both modulation *Depth* and *Rate*. The 1st half of the knob travel gives *slow* modulation rate, and the last half gives a *faster* rate. The modulation Depth is fully adjustable within each region (modulation depth increases as the knob is turned clockwise). Thus you have modulation with adjustable depth and a choice if two different rates.



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● Dual

Two separate delays in series/parallel arrangement. One delay is set to Quarter Note and the other to Dotted 8th, the signature stacked-delay sound for worship music. Delay time range : 800 ms.



PARAM

Param knob controls the *Stereo Spread* parameters. As this knob is turned up higher the echoes are spread wider on the stereo panorama.

● Diffuse

Delay and reverb combo algorithm with repeats that gets more and more diffused at each iteration. Delay time range : 800 ms.



PARAM

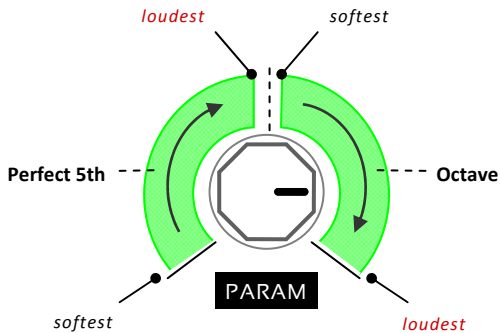
Param knob controls the *Reverb* parameters. As this knob is turned up higher the reverb intensity increases and the echoes diffusion rate increases.

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● Ambient

This algorithm mode blurs the line between delay and reverb. Repeats get more diffuse with each iteration, and as REGEN knob is turned up the echoes wash out into reverb-like ambience.

PARAM knob controls the *type* and *level* of a secondary pitch-shifted voice. The first half of the knob range constitutes *Perfect-fifth* pitch interval and the second half constitutes *Octave* interval. The voice level is adjustable within each region (loudness increases as the knob is turned clockwise).



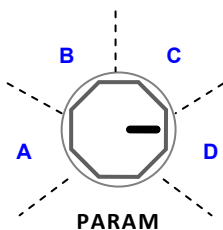
Finally, the repeats bounce between the two output channels (ping-pong), resulting in a very wide stereo impression. As such, this mode works best in stereo setup.

To summarize, this variation mode is about reverb-like ambience + pitch-shifted voices + stereo rhythmic groove. There are lots of wonderful sound textures to be discovered.

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● H³ (3-heads delay)

This is a model of tape delay with 3 “playback heads”. Each input sound event will be played back thrice at different delay times, and signals from the playback heads are re-injected into the feedback loop, creating layers of warm and complex multi-tap echoes. 4 choices of heads matrix configurations (tap patterns) are accessible through the PARAM knob.



Heads Matrix configuration (tap patterns)

- A : Pattern I
- B : Pattern II
- C : Pattern III
- D : Pattern IV

* As the REGEN knob is turned up higher, a touch of reverb-like ambience starts to appear, and the stereo spread of the echoes increases.

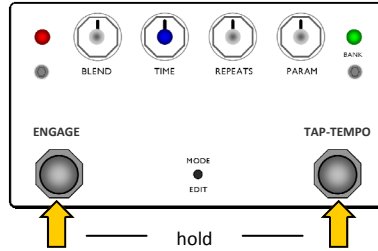
● H⁴ (4-heads delay)

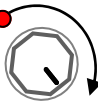
Same as above, but with 4 playback heads.

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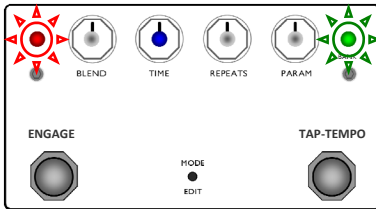
CHAPTER 6 - Auto Regen Swell

When you activate this feature the pedal automatically sweeps the *Regen* parameter to the maximum value, hold it there, and sweeps it back to the previously set value - It's like having someone turn the REPEATS knob while you're playing. Used judiciously, this feature introduces useful dynamic elements to




current value -  The parameter controlled by INTENSITY knob gradually sweeps to maximum value (as if someone slowly turns the Intensity knob all the way up).

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As long as you hold the footswitch down, the *Regen* parameter stays at its maximum value and both LEDs flash continuously.

 Then when you finally release the footswitch, the *Regen* parameter slowly sweeps back to the previously set value.

REPEATS

Try this out :

1. Activate AMBIENT mode.
2. Set the *Repeats* knob to a low setting (about 9 o'clock).
3. Set *Blend*, *Time*, and *Param* as desired.
4. Start playing, the delay will have few very repeats
5. Execute auto regen swell.

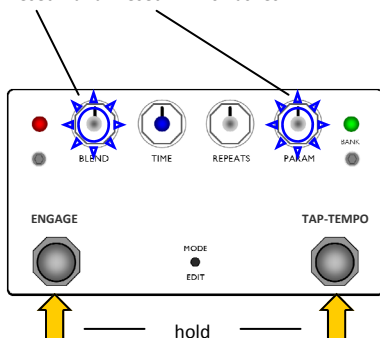
Note : Auto Regen swell function can also be done using an external switch box connected to the Exp/Tap input.

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CHAPTER 7 - Factory Reset

Factory Reset will revert your pedal to the factory setting, all user presets will be erased.

To perform factory reset : press and hold both footswitches while applying power to the pedal. Keep holding until Preset-1 and Preset-4 LEDs flashes 4x.



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Features :

- 7 studio-grade delay algorithms
- 8 presets.
- Expression pedal and Tap-Tempo input.
- Stereo input and output.
- Kill Dry capability.
- 24-bits signal processing.
- Analog Dry-thru.
- Delay tails spillover when bypassed.

This product is designed and manufactured by :



Specifications :

- Input impedance : 1 MOhm.
- Output impedance : 500 Ohm.
- Current consumption : ~ 100 mA.
- Weight : 0.5 Kg (1.0 lbs).
- Dimension : 12 (L) x 6.5 (W) x 3.6 (H) cm
- Powered by an external 9V DC Adaptor (not included).

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