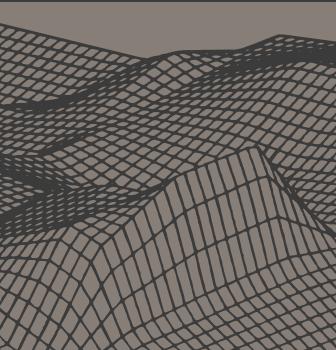
CBA ref 2024 - ONW01

Chase bliss

A field guide to **Onward**



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9V DC

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Power req: 9V DC Center Negative ~200 mA

Overview

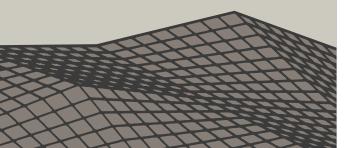
ONWARD!

Do not get stuck in one place.

Onward is a dual effect that moves when you do, using the sounds you play to create rich musical landscapes that exist for but a moment in time.

And then onward.

(Actually you can preserve them but we'll get specific later).



It's made up of two parallel channels:



Each channel captures a sample of your audio that is then run through Onward's various sections to bring it to life.

You will find layered accompaniment.

Swelling synthetic reimaginings.

And a whole heap of glitching dreamscapes.

If you play something gentle, it will too. Get a little wild and it will be right there with you. Onward is a fluid effect that adapts to the moment and your decisions.

And we're going to learn how to use it now.

Setup

Let's get Onward settled into your environment. If you're experienced with pedals, you can probably ignore this bit and dive right in.

POWER

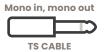
Onward requires a 9V DC center negative power supply with at least 200 mA of current.

You'll see this symbol on your power supply:



ı/o

Onward can be used in mono, stereo, or mono to stereo. The default setting will automatically work for either mono or stereo:





TRS CABLE

Many stereo devices use dual mono jacks, so you may need a TRS to dual TS-style cable.



If you have a mono input and want to split it to stereo output, turn on the **MISO** dip switch.

And if you want unique stereo processing, turn on the SPREAD dip switch (pg. 40).

OPTIONS

Onward has lots of ways to customize and fine-tune your experience. If you'd like to get right into all that, check out:

- Hidden Options (pg. 14-19)
- Customize (pg. 40)
- Ramping (pg. 42)
- External Control (pg. 44)

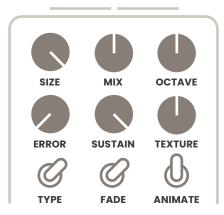
If you don't want to get into all that, it's probably best to start with all dip switches other than LATCH in the off position.



Okay let's get started.

Getting Started

We're going to go on a little guided tour.



Turn on the Freeze and play a note. You should have a soft, floating pad. Play a few more notes and notice how it follows along.



Now let's mess with it.



Turn down **TEXTURE** to add a bit of digital seasoning.

Turn up **OCTAVE** to blend in a harmonizing voice.

And flick the **ANIMATE** toggle to get things moving.

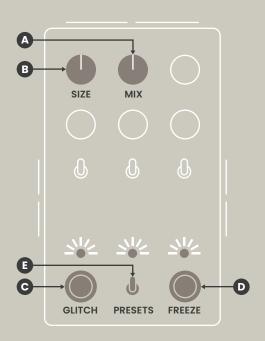
Now turn on the Glitch and play some more. Leave pauses between phrases to hear what Onward does with your playing.

Once you hear something you like, hold down the Glitch footswitch. Now the Glitch will give you a repeating phrase to play along to, but the Freeze continues to follow you.

Finally, turn up **ERROR** and watch the beautiful scenery fall apart.

Okay, let's talk about what's happening.

General Controls



Blend, engage, recall.

MIX

Sets the balance between your input signal and Onward (controls both Freeze and Glitch). If ramping is engaged (pg. 42), this knob's function will change to control the ramping speed.

SIZE

R

D

Sets the length of the Glitch and the overall timing of Onward's various parts. SIZE will also control the subdivision when MIDI is clock-synced.

GLITCH

Tap to engage the Glitch effect.

Hold to lock and preserve the current sample.

FREEZE

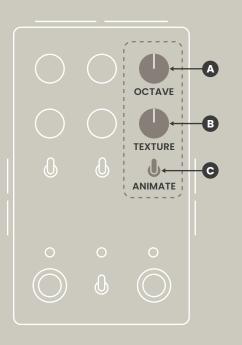
Tap to engage the Freeze effect.

Hold to lock and preserve the current sample.

PRESETS

The left and right positions each store a preset, while the middle position is live (current settings). To save to the right slot, hold the right footswitch for 3 seconds, then add the left footswitch for another 3 seconds. Do the same for the left slot, but start by holding down the left footswitch. The middle LED will blink to indicate success.

Effect Controls



Harmonize, excite, drift.

OCTAVE, TEXTURE, and ANIMATE combine to form the Effect section.

OCTAVE

Blends in an additional voice that is either half or double speed. The left half of the knob brings in a half speed, lower octave voice, and the right half brings in a double speed, upper octave voice. At noon OCTAVE is disabled.

B TEXTURE

Pushes Onward into digital or analog-style distortion to introduce some grit. You will find overdrive on the right half of the knob's sweep and sample rate reduction on the left. At noon **TEXTURE** is disabled.

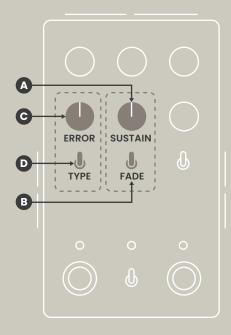
ANIMATE

С

Can be used to engage two different types of movement.

- VIBRATO Speed set by the SIZE knob.
- × NONE
- CHORUS Always set to a slow, atmospheric speed.

Shape and Error Controls



Swell, stumble, surprise.

SHAPE



В

С

В

SUSTAIN

Determines how long sounds will hold before fading away. Lower settings can be used to create short blips, strange echoes, and synth-like effects. At max the sustain is infinite and will hold until you trigger a resample.

FADE

Sets how quickly sounds fade in and out.

- SLOW Soft and swell-y.
- USER Whatever you like, set in the
 - Hidden Options (pg. 15).

FAST - Immediate and responsive.

ERROR

Sets the likelihood of an error occurring as well as its intensity, in some cases (pg. 34).

TYPE

Selects the type of error.

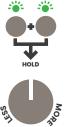
TIMING - Changes the sample size.

- CONDITION Introduces mutes and
- sample rate shifts.
- PLAYBACK Destabilizes playback speed and direction.

The timing of Shape and Error are both linked to the SIZE setting.

Hidden Options





SIZE EVEN

MIX

OCTAVE

SUSTAIN

E

MORE

FASTER

¢55

G

ESS

AJOWER S

HIDDEN OPTIONS

Hold both footswitches down to adjust the Hidden Options. The LEDs will light green.

SENSITIVITY

Sets how easy it is to trigger Onward with your playing dynamics. Around noon will work best in most cases.

BALANCE

Adjusts the relative loudness of the two channels.

DUCK DEPTH

Controls the sensitivity and intensity of the ducking and sidechain effects (pg. 41).

USER

Allows you to set a custom value for the middle FADE position.

Hidden Options continued



< ROUTING >

Each toggle gives you the ability to isolate its related section, applying it to only one channel or the other. They all work like this:



Only affects Glitch



Affects both channels



Only affects Freeze

< TYPE >

Errors will only apply to one channel. The other will be stable.

< FADE >

SUSTAIN and FADE will only apply to one channel. The other channel will have infinite sustain and fast fade.

< ANIMATE >

OCTAVE, TEXTURE, ANIMATE, and EQ will only apply to one channel; the other will be clean.

There are also a couple hidden Hidden Options.



ERROR BLEND

Lets you blend in the other two unselected error types so that you can get a mix of all three. The **ERROR** knob still controls the overall chance of an error, and the hidden option sets the likelihood that it will be one of the unselected types.



EQ

Rotate clockwise to remove low frequencies and thin out the signal. Rotate counter-clockwise to remove high frequencies and to darken the overall signal.



To reset all the Hidden Options to their default setting, flip the preset toggle to the left position and back to center three times. Once you see the blinking lights, press both footswitches at the same time to confirm.

Hidden Gestures

There are also a few Hidden Gestures.



TAP TEMPO

If you want to sync things manually, you can! Tap both footswitches twice to put Onward into tap tempo mode, you'll know you're there when all LEDs start blinking red. Use the left footswitch to tap in your tempo, and the right footswitch to exit tap tempo mode.



GLITCH



DRY KILL

If you'd like to remove the dry signal from the output (useful for wet/dry setups) – hold the GLITCH switch down while powering up the pedal. This preference will be remembered in the future.

TRAILS

If you'd like Onward's effects to smoothly fade away when bypassed, engage trails by holding the FREEZE switch down while powering up the pedal. This will be remembered in the future.









Onward 101

There are a couple simple concepts that make everything else easy to understand.

DYNAMICS

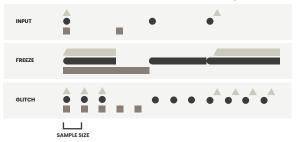
Onward is primarily a dynamic effect.



Whenever Onward detects sound at the input, it samples that sound. If there was already a sample, it replaces it – sounds within Onward do not stack but are instead always changing and moving forward. This is true for both channels.

You do have the option to lock in either channel by holding down its footswitch so that it will preserve the current sound instead of resampling. This makes it possible to have one channel be dynamic and the other steady.

TOGETHER OR SEPARATE Onward is made of two channels run in parallel.



They sample the input at the same time, but into their own memory. You can process them independently and treat Onward like two effects in one enclosure, or combine them into one mega-effect. Or a bit of both.

TOGETHER:

- Both channels follow your dynamics and sample at the same time.
- Both channels are processed by every section by default.
- You can sidechain the Freeze channel to the Glitch channel (pg. 41).
- You can have both channels duck in volume as you play (pg. 41).

SEPARATE:

- You can route Onward's sections to one channel or the other (pg. 38).
- You can lock a channel so that its sample is preserved, while the other continues to be dynamic.
- You can use MANUAL mode to control sampling of each channel independently via its footswitch (pg. 41).

Freeze

Onward's Freeze channel captures and sustains a single moment in time.

It can be used to make droning background ambience, or a supportive harmonizing voice, or to turn your instrument into a synth.

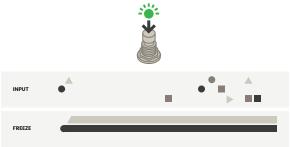
Onward will automatically freeze a note whenever you play.



When you play another note, it will resample and replace that sound.



At any time you can hold the footswitch to lock in the current sound, so you can play freely overtop without replacing it.



If you prefer a more traditional, footswitch controlled freeze, that's an option, too. Simply turn on the MANUAL dip switch (pg. 41). Now Onward will ignore your dynamics and only resample when you press the footswitch.

YOU GET WHAT YOU GIVE

Softer and sparser playing will give you smooth, shapeless sounds, while faster and more intense playing will lead to spikier sounds with audible repetition. With a bit of practice you can use your playing to steer the Freeze back and forth between these different timbres.

Freeze Ideas



SUB SYNTH

🗩 OCTAVE 🌏 SUSTAIN

Turn Onward into a doomy synth that follows along and fills out the lower register. As long as OCTAVE is at the minimum position, the rest is up to you. Experiment with FADE, TEXTURE, and ANIMATE.



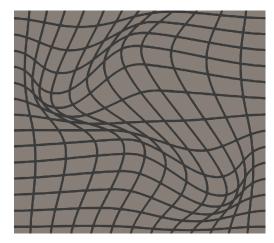
LIVING PAD

FREEZE SERROR

Hold the Freeze footswitch down to lock in an infinite pad – the classic freeze effect. Now experiment with different **ERROR** settings to introduce motion and variance to bring that pad to life.



This setting will turn any sounds that you play into a sprawling ambient composition. Play slowly and be patient; it will take awhile for your new samples to fade in.

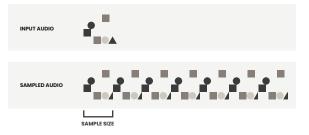


Glitch

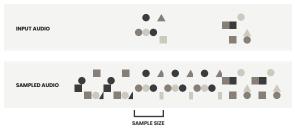
Onward's Glitch channel samples and repeats small chunks of audio.

It can make dynamic loops, strange echoes, and of course, glitches.

Onward will automatically sample a phrase whenever you play.



It will begin sampling as soon as audio is detected, and continue until it hits the end of the recording length. This means the first note you play will be the first note in the sample, and subsequent notes will be recorded as well. When you play again it will resample and replace the current phrase.



The length of the sample is controlled by the SIZE knob, with a max record time of one second.

You also have the option to lock in a sample by holding the Glitch footswitch. Now you can play overtop and experiment with different settings and the sample will be safely preserved.

HALF SPEED

If you're finding the size of the samples a bit short for your liking, turn on the ½ **SPEED** dip switch (pg. 41). This will double the sample size, and introduce a slightly lo-fi audio quality.

Glitch Ideas



AUTO-REPEATER

SUSTAIN Ø FADE

A classic repeater effect that will sample and infinitely loop each note you play. A simple and fun starting point. Turn **SUSTAIN** down and the repeats will cleanly and instantly disappear after a chosen amount of time.



SWELLING DELAY

SUSTAIN 🕥 SIZE 📎 FADE

A vaporous pseudo-echo with repeats that gradually swell in and crossfade with one another as you play. These settings are just starters – adjust to taste.



TRUE GLITCH



The middle ERROR TYPE makes it easy to create more natural sounding glitches that pop in and out instead of repeating steadily. Adjust ERROR to control how broken and sporadic the glitches are.

SPEEDY STARTER



Turn up OCTAVE to introduce a secondary, harmonizing voice that plays at 2x speed. Pairing this with Glitch produces dense phrases with rhythmic interplay that act as great launching points. Play around for a while until you hear a phrase you like, then hold the Glitch footswitch to lock it in.

The Effects section gives you three ways to modify Onward's sound.



Introduce pitch shifts and harmonies.

Push things into digital or analog-style distortion.

Engage wobbly or dreamy movement.



OCTAVE

The OCTAVE knob blends in a second voice that is either half (octave down) or double (octave up) the speed of your input audio. You can use this voice alongside the real-time audio to add depth and harmony, or completely replace it.



TEXTURE

The **TEXTURE** knob lets you rough things up a bit. The left half of the sweep reduces the sample rate, useful for adding some sizzle and pushing Onward into the forefront. The right half is a more restrained soft-clipping overdrive with dynamic overtones and tasteful compression.

SECRET TONE

Hidden behind the **TEXTURE** knob is also a simple EQ that lets you thin out or darken the sound (pg. 17).



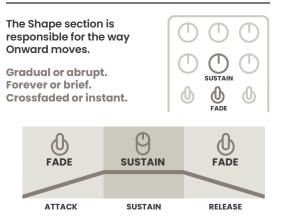
ANIMATE

The ANIMATE toggle lends Onward a bit of motion and sway. The left position engages a vibrato for some vintage warble or dissonance. The rate of the vibrato is set by the SIZE knob. The right position engages a chorus for increased dimension and a hazy quality. The rate of the chorus is slow and fixed.

✓ - VIBRATO
X - OFF

WA - CHORUS

Shape



The FADE toggle controls the fade in and out time. The SUSTAIN knob controls the hold time.





Samples will appear instantly, and last for just a moment. Try turning up ERROR and TEXTURE for an intense effect that quickly flames out. A couple other helpful things to know:

The FADE toggle also controls the crossfade time – how long it takes for new samples to replace old ones. This means you will get fleeting moments of layering at slower FADE settings as old and new momentarily blend together.





The **SUSTAIN** knob can be used to select exactly how many repeats you get on the Glitch side.

(Note that FADE will add additional repeats, so set its toggle to the right position if you want to avoid this.)

Both SUSTAIN and FADE are linked to the setting of the SIZE knob. This makes it possible to get useful sounds at any size. Smaller sizes will speed up the fades and shorten the sustain.

Error

The Error section gives you three different ways to introduce randomization and variation. This will not only make the Glitch sound more organic but it means the Freeze can also get in on the fun.





- Insert drops and sample rate shifts.
- Or destabilize speed and direction.

Or all of them at once!



The **ERROR** knob sets the chance of an error occurring.

It also controls the intensity of the errors for both H Condition and Z Playback.

TIMING Manipulates the length of the samples.

LEFT			
RIGHT			

On the Glitch channel this will create rhythmic variation and a pattern-like feeling, while on the Freeze side it will create interesting churning textures like modulating a synth.

CONDITION

Creates dropouts and playback failures, as well as momentary changes to the sample rate.

LEFT		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
RIGHT			

Condition is a handy way to make the Glitch side more intermittent and sparse, and to add some bump and bite to the Freeze side.

Z PLAYBACK

Changes both the direction and speed of playback at random. Playback may become sped up or slowed down by 2x or 4x, as well as reversed.



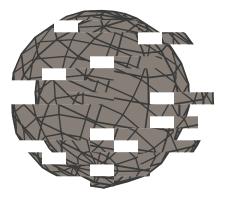
Error continued

STEREO SPREAD

Turning up **ERROR** is also the key to making Onward's stereo processing come to life. The various malfunctions will randomly occur on one channel or another to create unique stereo motion. Make sure the **SPREAD** dip switch is engaged (pg. 40).

ERROR BLEND

Turn up the hidden option under the ERROR knob to mix the different error types together and have all three happen at once (pg. 17).





DANCING DRONE



Each of the errors are useful in their own way for lending a bit of motion and intrigue to a frozen sound. Having TYPE set to Playback will introduce momentary pitch shifts that can make a simple freeze feel like a generative composition.



UH OH

ERROR REROR BLEND

Anything can go wrong in this setting. Each error is equally likely to occur, giving you lots of variation and surprise. Adjust the **ERROR** knob to have more or less errors overall.

TWO SIDES, TWO SOUNDS

The errors take on a different character for each channel. On the Freeze side they will generally manifest as brief blips and departures that come and go; on the Glitch side they will be longer-lasting and more rhythmic. Try isolating each channel and listening to the difference, and remember that you can route **ERROR** so that it only affects one channel and not the other (pg. 38).

Routing

Onward's routing abilities are simple to use, but they greatly increase the pedal's depth.

Each of Onward's three key sections – Error, Shape, and Effects – can be isolated to one channel or the other.



This makes it possible to apply errors only to the Glitch, for example, so that the Freeze can stay smooth and steady.

Hold down both footswitches.



Move the toggle for that section towards the channel you want to process.



Here are a couple ideas to get you started on your routing journey:



COMPLEX COUPLE

5 **(** ()

This is a special one. The various effects give energy and nuance to the Freeze channel, while the errors create motion and variation on the Glitch side. The two channels move as one, but make very different, complementary effects with loads of depth.



FRANTIC COMPANY

AS AS AS C SIZE C OCTAVE

With these settings, and everything routed only to Glitch, you will be greeted with a wild burst of energy whenever you play a note. In between you will have the opposite – a soft, infinite freeze.

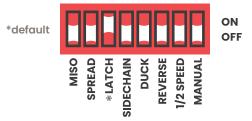
By default, each section is applied to both channels. See pg. 14 for more on Hidden Options, including how to reset to the defaults.

To adjust the routing:

Customize

The white-labeled dip switches on top of Onward allow you to engage some alternate behaviors and set things to your liking.

The dip switch settings are saved with your presets.



MISO

Mono In, Stereo Out. Splits a mono input signal into a stereo output.

SPREAD

Turns on stereo processing to generate movement and create an expansive stereo image. **SPREAD** engages a widening effect for both channels, and stereo movement tied to the Error effects.

LATCH

Changes the hold function for each footswitch from momentary to latching, so that it will remain engaged until the footswitch is held again.

SIDECHAIN

Engages a pumping effect on the Freeze channel. The Freeze will momentarily dip in volume whenever the Glitch resets, creating a linked alternating effect. It can also be used even when Glitch is off to make Freeze rhythmic (speed set by SIZE knob).

DUCK

Engages a dynamic ducking effect on both channels. Onward's sounds will momentarily dip in volume whenever audio is present at the input.

REVERSE

Causes the Glitch side to play in reverse.

1/2 SPEED

Cuts the recording quality in half for the Glitch side. This doubles the **SIZE** setting for longer samples and introduces a slightly lo-fi quality.

MANUAL

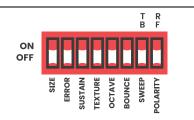
Deactivates dynamic control, instead allowing you to manually resample by tapping the footswitches.

TAP - Samples new audio

HOLD - Infinitely holds the current audio (ignoring the SUSTAIN setting)

DOUBLE TAP - Disengages the effect

Ramping



Ramping gives you the ability to automate Onward's knobs, either as a one-time movement (ramp) or continuous motion (bounce).

It's easier to get started with bounce, so let's do that. We're essentially going to modulate a knob.





1. Engage BOUNCE.



2. Choose which knob(s) you wish to control.



4. Set the speed.



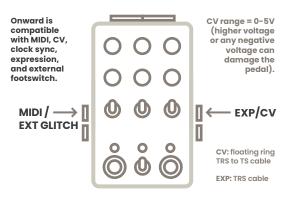
Now Onward will steadily shift between digital and analog-style distortion, adding movement and increased nuance to the effect. The position of the knob you're controlling is important, because it either sets the maximum or minimum point of the range (depending on the **SWEEP** setting).

Ramp is the same idea, but the movement only happens once when you turn the pedal on. Your chosen knob(s) either rise or fall to the position set by the knob, then stay there. Useful for creating a wave of motion and activity when you first turn Onward on.

Check out the Dip Switches 101 guide on our website for a step-by-step on ramping.

Ramping is engaged as soon as the dip switch for a corresponding knob is set to ON. At this point, the MIX knob automatically changes to control the ramp speed. You can still adjust MIX while ramping by holding down the left footswitch as you move the knob.

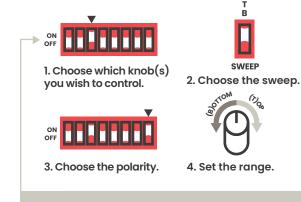
External Control



CV and expression can be used to control Onward's knobs.

MIDI lets you go deeper and control everything, including clock sync, the Hidden Options, and the dip switches.

CV and expression are set up the same way as ramping using the dip switches on the top of the pedal. The pedal will simply detect a CV or expression signal when you plug it in and hand over control.



If you plug in a CV or expression signal but engage none of the knobs, you will have control over MIX.

MIDI requires a Chase Bliss MIDIbox to convert the signal to a ¼" TRS jack. For details on getting MIDI going with Onward, check out the MIDI manual.

The MIDI jack can also be used to engage Onward's Glitch effect with an external footswitch. Useful for tabletop setups. Plug any normally-open momentary footswitch in and you're all set, it takes control automatically.

ONWARD!

You're ready. You know everything. Go forward and see what you find.

> Write us here any time if you have any questions: help@chasebliss.com

> > We're happy to help

Have fun!