

# WOBBLINESS AWAITS...



**ZANDER**  
CIRCUITRY

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## BEFORE WE GET STARTED...

We just want to thank you for purchasing one of our pedals, your support means an awful lot to us. We love doing what we do and it wouldn't be possible without the fantastic people that help and encourage us to continually push our limits.

We really hope you enjoy making wonderful noise with it!

*Alex Millar*

Founder

# OVERVIEW

Welcome to wobbliness.

Want modulation? You've got it. The Junipero is a one-of-a-kind multi-modulation powerhouse with eight unique takes on classic effects that you know and love. From chorus and vibrato to flange and ring modulation. You'll recognise them all in the Junipero, but with an added twist that takes things to a whole new level of wozy.



effect type:  
multi-modulation



switching:  
true or buffered bypass



power:  
9v DC (center -)



jacks:  
top mounted



current draw:  
250ma



# ON THE SURFACE

1. Stereo out
2. Mono out
3. Stereo in
4. Mono in
5. Expression pedal in
6. MIDI
7. 9v DC in (center -), current draw 250ma
8. Rate - modulation rate
9. Depth - modulation depth
10. Ctrl - secondary parameter (see page 6)
11. Tone - EQ control for the wet signal
12. Level - master volume control
13. Mix - wet/dry blend knob
14. Patch selector
15. Sub division indicator LEDs
16. Preset indicator LEDs
17. Tap - tap tempo
18. Tempo indicator LED
19. Sub - tap sub-division selector
20. Preset - preset selector
21. Engage/bypass mode indicator LED
22. Engage - bypass



# DEEP DIVE

## 1. TAP TEMPO

Pressing the tap tempo footswitch twice will set the tempo of the modulation, the tap LED will flash in time with the tempo you've tapped in. It is worth noting that the tap LED does not flash in sync with the LFO rate but the tempo.

## 2. SUB SWITCH

The sub switch allows you to cycle through 5 different subdivisions for the tap tempo. These are indicated by the 5 LEDs above the 'sub' label.

1. quarter notes
2. dotted eighths
3. eighth notes
4. triplets
5. sixteenth notes

## 4. PRESETS

The preset switch allows you to store and cycle through 5 on-board presets. These are indicated by the 5 LEDs above the 'preset' label.

To store a preset, cycle through to the number you'd like to assign the preset to, set the controls to the desired settings and then press and hold the preset footswitch for 3 seconds. You'll see the LED jump forward to the next number and then jump back again. This indicates the preset has been stored.

## 4. TRUE/BUFFERED BYPASS

True or buffered bypass can be assigned per preset. To change bypass modes, press and hold the bypass footswitch for 3 seconds. The bypass LED will flash briefly to confirm the change has taken place.

In true bypass mode, when the pedal is off the bypass LED will be off. In buffered bypass mode, when the pedal is off the bypass LED will be red. In both modes the bypass LED will be green when the pedal is on.

## 5. EXPRESSION PEDAL CAPABILITY

All parameters (including the patch selector!) can be controlled with an expression pedal on a per-preset basis, to do this:

1. Plug in an expression pedal to the 'exp' input
2. Press and hold the sub and engage footswitches for 3 seconds, the bypass LED will start flashing red, you have now entered assignment mode (flashing red means that no parameters have been assigned yet)
3. Rotate the controls you'd like to assign to the expression pedal for that preset. The flashing bypass LED will change from red to orange once the first parameter has been assigned to confirm the change has been recognised
4. To exit assignment mode, press and hold the sub and engage footswitches for 3 seconds. The bypass LED will stop flashing and return to it's previous state
5. To clear the expression assignments for a preset, press and hold the sub and engage footswitches for 5 seconds (from outside of assignment mode). The flashing bypass LED will flash orange (after 3 seconds) and then red (after 5 seconds) to confirm that the assignments have been cleared.

## 6. MIDI (A BRIEF INTRO)

Connecting a MIDI controller to the Junipero via the MIDI jack allows you to access a wide range of additional features including storing up to 128 presets, externally controlling any parameter and accepting beat clock information. The MIDI controller numbers are as follows:

rate = 20

depth = 21

ctrl = 22

tone = 23

level = 24

mix = 25

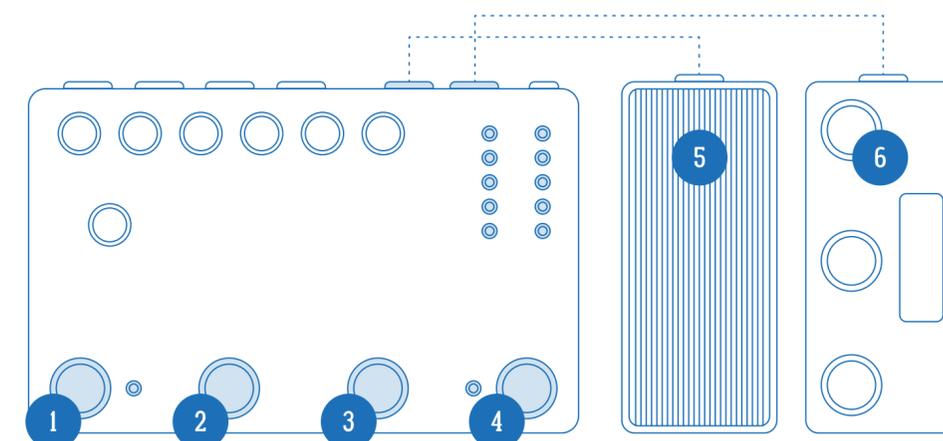
patch selector = 26

tap sub-division = 27

bypass = 29



Our MIDI TRS configuration follows the official MIDI Manufacturers Association's specification. (This is also the same as Empress Effects, however it is possible to flip the configuration to be the same as used by Chase Bliss Audio if needed. Please contact us to discuss this).



# SOUNDS & STEREO

With 8 unique patches, you're sure to find loads of sounds to immerse yourself in!

## A QUICK NOTE ON MONO/STEREO...

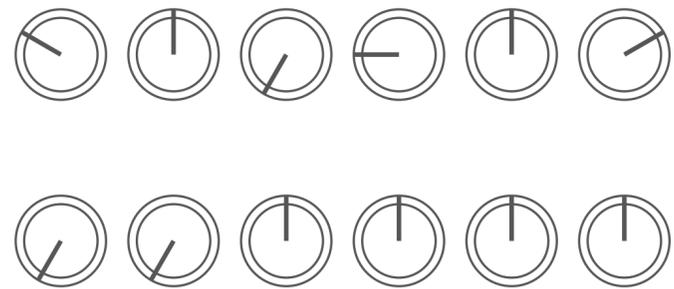
If you're running a mono setup, just use the mono jacks. Do not run a mono setup through the stereo jacks. You can still run mono in to stereo out. Bypass mode must be switched to buffered in order to get stereo bypass.

#	Effect	Description	Ctrl knob	Stereo function
1	Chorus/vibrato with detune	Voiced to replicate the analog chorus pedals that defined the sounds of the 1980s.	Detune control that creates a more intense chorus effect (or use it on its own to create a doubling effect).	Detune and chorus are sent to different channels.
2	Multi-voice chorus	A 4 voice chorus that creates a very lush and intricate chorus sound that borders on flanger territory with certain settings.	Depth control for voice 3 & 4.	Voices 1 & 2 and voices 3 & 4 are sent to different channels.
3	Flanger	Classic flanger sounds with wide-ranging rate & depth controls.	Feedback control for increasing intensity.	Signal is split across both channels and filtered slightly differently.
4	Through-zero flanger	A much more 'vocal' style flanger with elements of phase-shifting.	Feedback control for creating a more 'vocal' flanging/phasing effect.	Signal is split across both channels and filtered slightly differently.
5	Phaser	A 10 stage phaser with wide-ranging rate & depth controls.	Feedback control for creating a more 'vocal' phasing effect.	Signal is panned in time with the LFO.
6	Tremolo	Classic tremolo sounds with wide-ranging rate & depth controls.	Blend between 2 different type of tremolo (counter-clockwise is classic sine-wave, clockwise is more 'percussive').	Signal is panned in time with the LFO, ctrl knob defines how symmetrical the panning is.
7	Harmonic tremolo	A hypnotic effect created by splitting the high & low frequencies of a signal, flipping the phase of one and then modulating them both.	'Q' control that allows you to make the effect more vocal (similar to an auto-wah).	High and low frequencies are split across the two channels.
8	Vibe-phase tremolo	Inspired by old amp pitch vibratos, this effect combines elements of pitch, phase and amplitude modulation.	Depth control for the tremolo (Depth knob controls the vibe/phase depth).	Vibe/Phase is sent to one channel, Tremolo to the other.

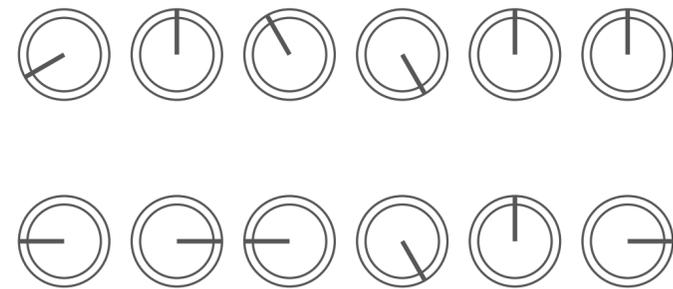
# SUGGESTED SETTINGS

## CHORUS/VIBRATO WITH DETUNE

Mono

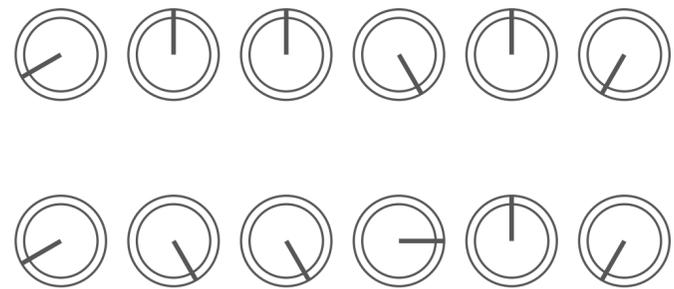


Stereo

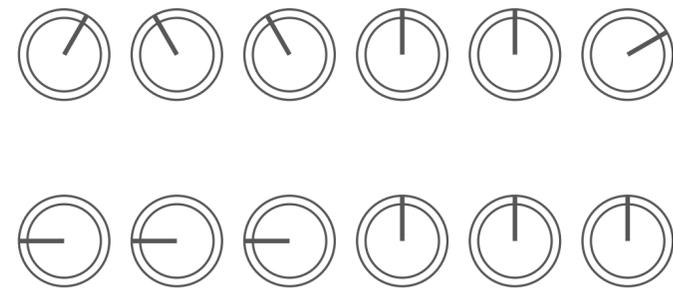


## MULTI-VOICE CHORUS

Mono

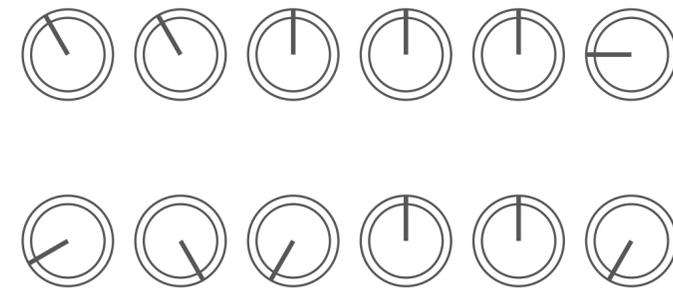


Stereo

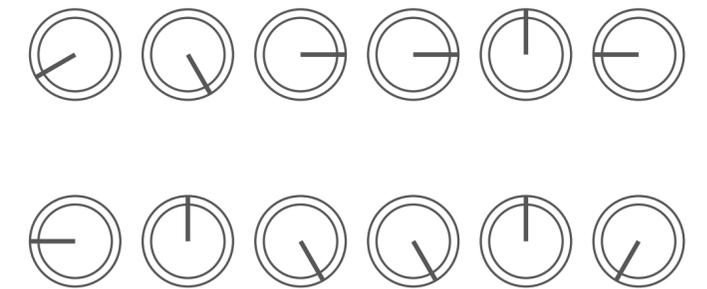


## FLANGER

Mono

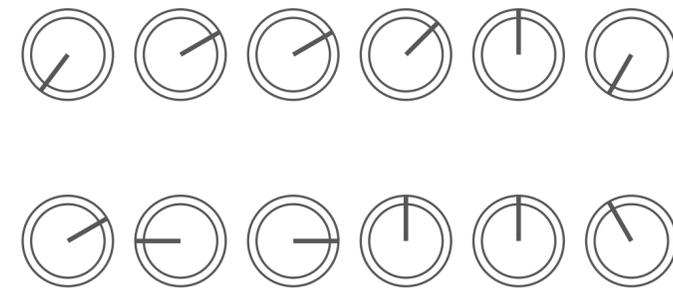


Stereo

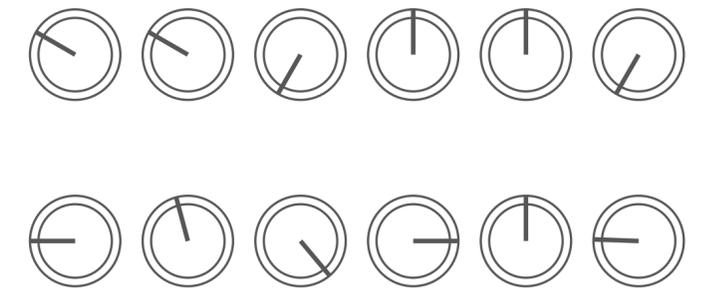


## THROUGH-ZERO FLANGER

Mono



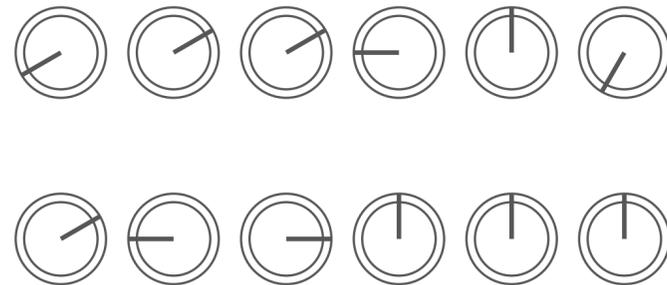
Stereo



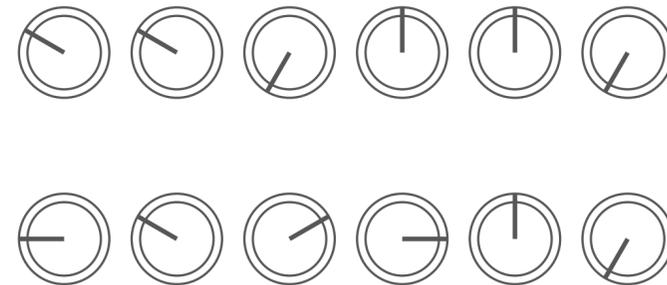
# SUGGESTED SETTINGS

## PHASER

Mono

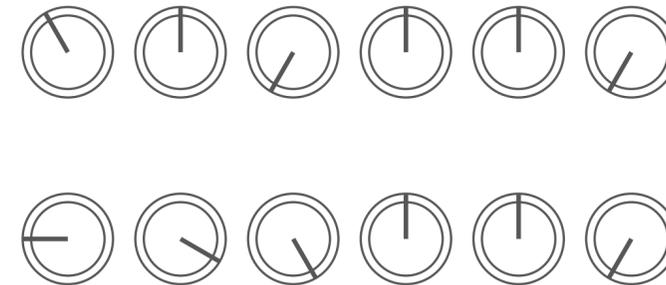


Stereo

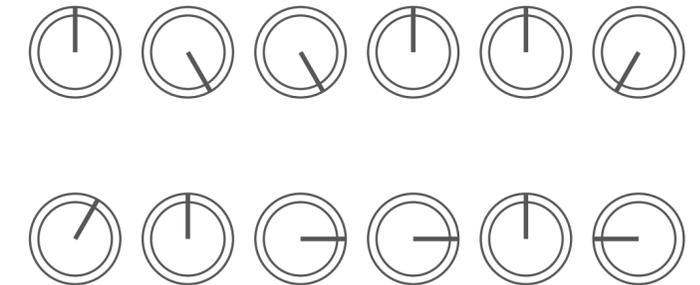


## TREMOLO

Mono

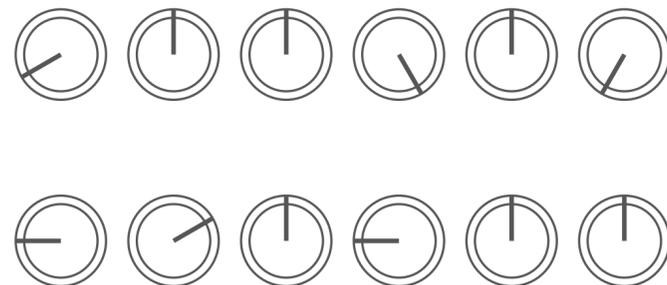


Stereo

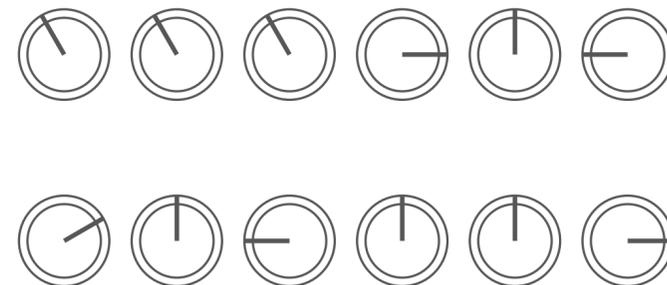


## HARMONIC TREMOLO

Mono

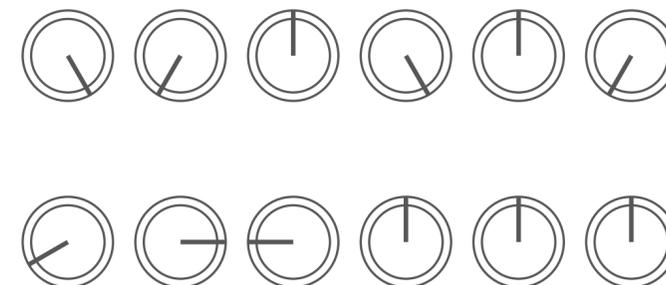


Stereo

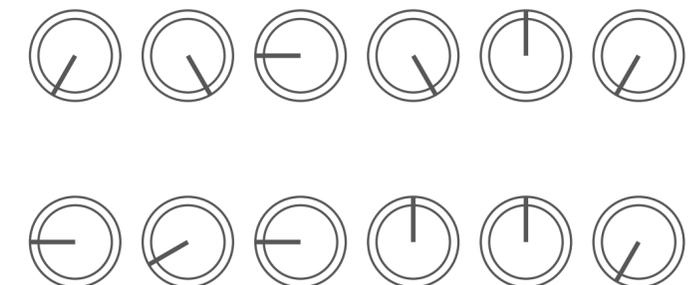


## VIBE-PHASE TREMOLO

Mono



Stereo



# WARRANTY & BORING STUFF

## WARRANTY

All orders are covered by a 6 month repair/replace warranty, this service is free but return postage will need to be covered by the buyer, please note this is only for faults and does not cover mistreatment...so don't go spilling beer on anything! Please note this warranty only applies to the original buyer of the pedal, if it has been bought second hand or is older than 6 months we're still happy to sort any issues for a small cost that will be quoted on a pedal-by-pedal basis.

It goes without saying that we do not recommend you try to fix any faults yourself and always urge you to contact us or seek the help of a knowledgeable tech to carry out the work for you.

Tampering of any kind with the internal circuitry will immediately void the warranty (the only exception being elements that are specifically meant to be tweaked/altered, such as a level trimpot), but make sure you know what you're adjusting or you'll have to send it back to be fixed!

For a full list of terms or any other frequently asked questions, visit our website: [www.zandercircuitry.com](http://www.zandercircuitry.com)

## COMPLIANCE/STANDARDS



## STAY IN TOUCH!

We always love you guys getting in touch, seeing and hearing the wonderful things you create. So please keep us updated with anything you're doing!

