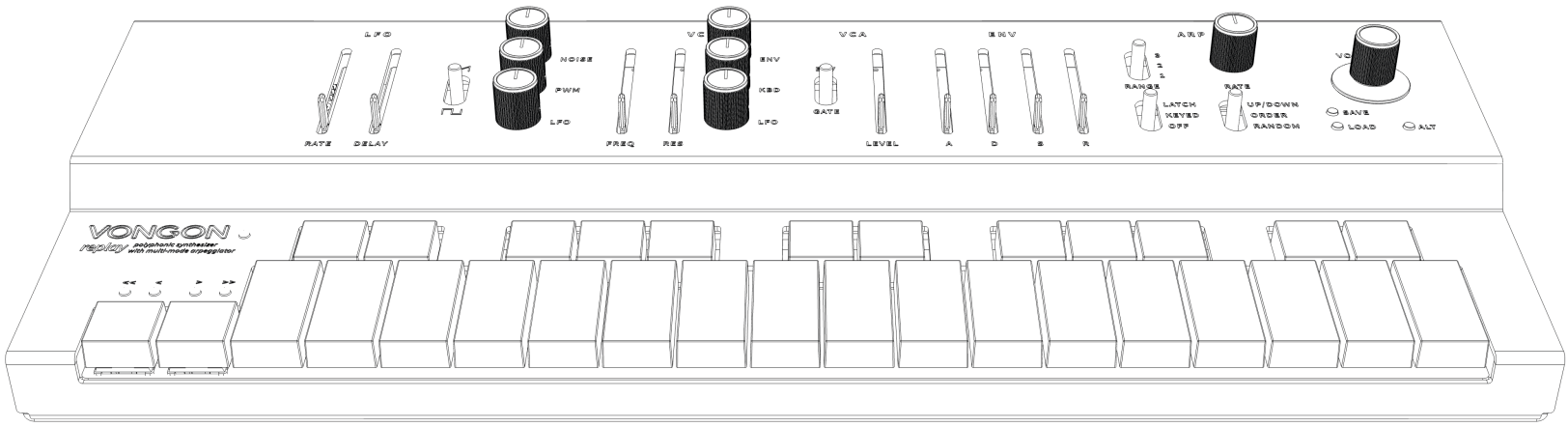
# VONGON

# *replay*




## USER MANUAL

VERSION 1.3.3

## ARP
***ARPEGGIATOR***

**RANGE -** octave range for arpeggio
**MODE -** sets operating mode. latch, keyed or off
**RATE -** speed notes are played in a sequence
**ORDER -** order notes are played in a sequence

## ENV
***ENVELOPE GENERATOR***

**A -** attack time
**D -** decay time
**S -** sustain level
**R -** release time

## VCA
***VOLTAGE CONTROLLED AMPLIFIER***

**MODE -** sets control signal for VCA. envelope, gate with release or gate
**LEVEL -** maximum level of VCA

## VCF
***VOLTAGE CONTROLLED FILTER***

**FREQ -** cutoff frequency of filter
**RES -** filter resonance, filter self oscillates above 80%
**ENV -** frequency modulation from envelope generator
**KBD -** frequency modulation from OSC pitch 100% is a 1:1 keyboard tracking
**LFO -** frequency modulation from LFO

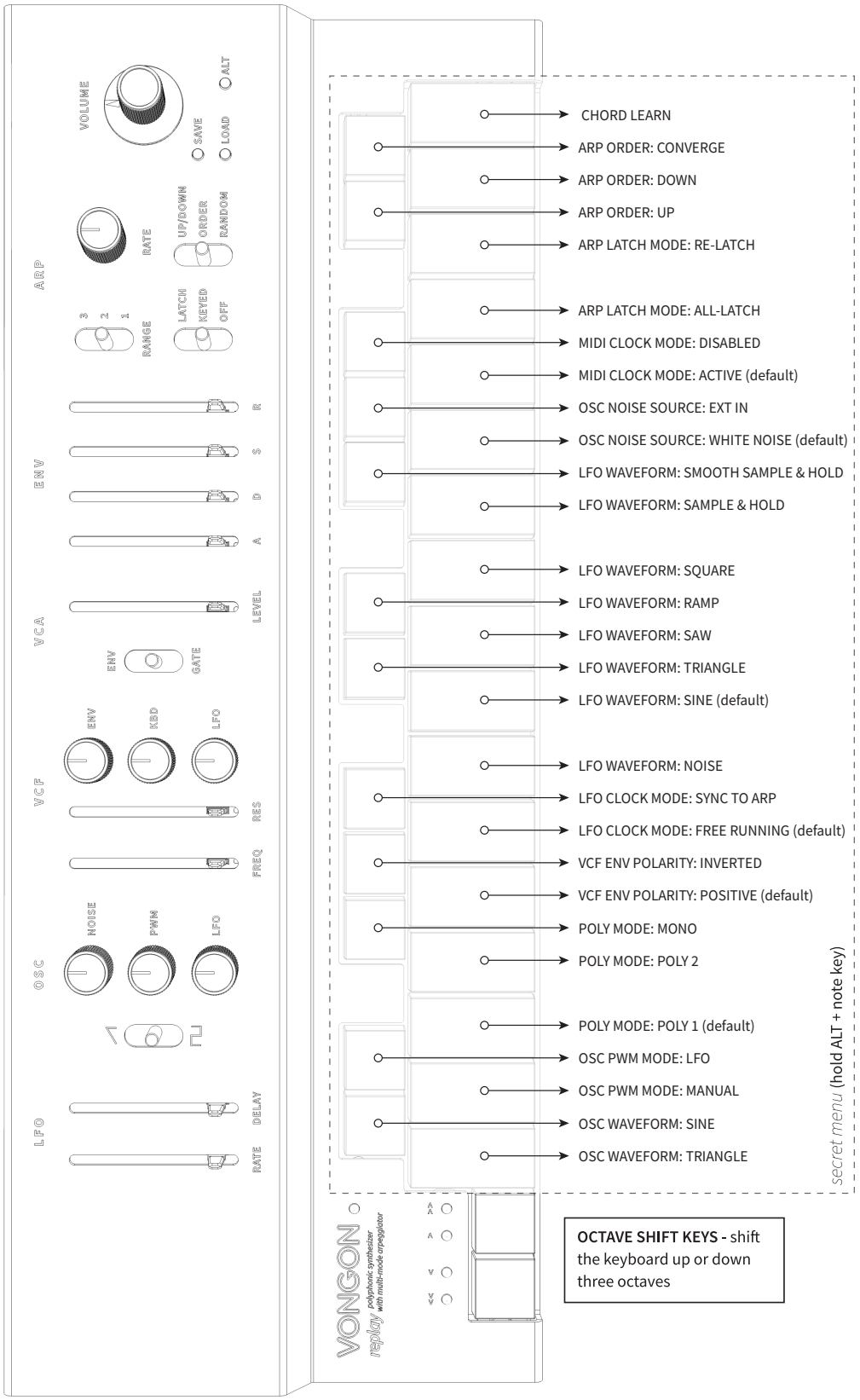
## OSC
***OSCILLATOR***

**WAVEFORM -** output waveform of OSC
**NOISE -** level of white noise
**PWM -** pulse width modulation of the square wave
**LFO -** depth of pitch modulation

## LFO
***LOW FREQUENCY OSCILLATOR***

**RATE -** frequency/speed of LFO
**DELAY -** time needed for the LFO to start to function after a key press

**VOLUME -** volume output of ***replay***
**SAVE -** save preset to internal memory
**LOAD -** load preset from internal memory
**ALT -** access additional modes of ***replay***




**OCTAVE SHIFT KEYS -** shift the keyboard up or down three octaves

## OUT

line level balanced ¼” TRS audio output

## EXT IN

line level balanced ¼” TRS audio input

## USB

USB-C connector for USB MIDI and ***replay*** *WEB Interface*

can be used as alter

## MIDI

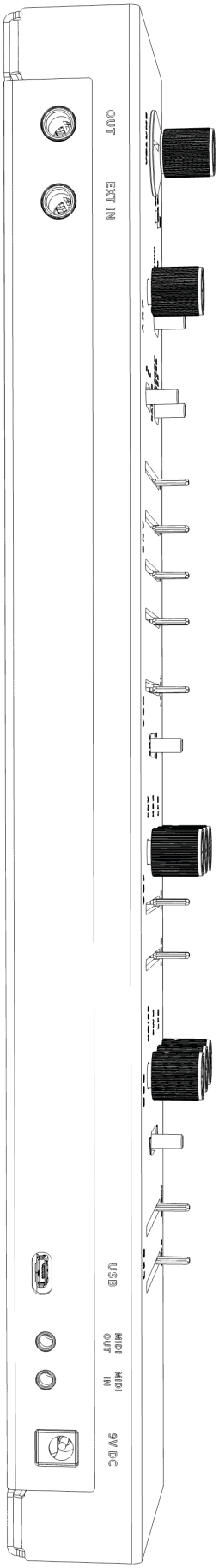
3.5mm MIDI IN/OUT for use with
external sequencers, keyboard and other hardware

compatible with TYPE A or B MIDI
adapters **-** configure in ***replay*** *WEB Interface*

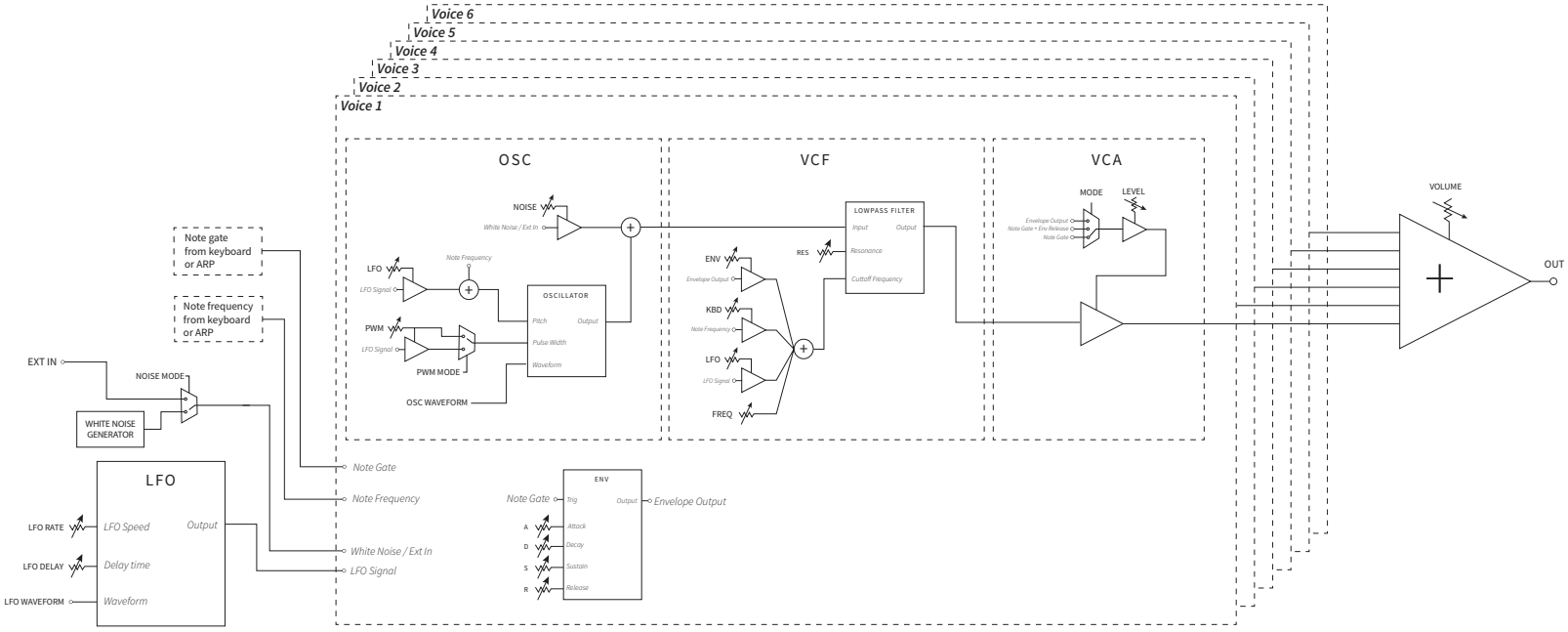
## 9V DC

primary power connector for ***replay***. standard effect pedal power supply, compatible with all **VONGON** pedals

2.1mm 9 Volt DC, Center Negative, 200mA Current Draw



# SIGNAL FLOW DIAGRAM



**INTRO** 6

**WHAT'S IN THE BOX?** 6

**replay WEB Interface** 7

**GETTING STARTED** 8

POWER CONNECTION 8

AUDIO CONNECTION 8

**LFO** 9

**OSC** 10

**VCF** 12

**VCA** 14

**ENV** 15

**ARP** 16

**MAIN** 19

**PRESETS** 20

**secret menu** 21

**MIDI** 24

**SWITCH REPLACEMENT** 26

**CHORD MODE** 27

**EXTENDED WARRANTY & SUPPORT** 29

**TROUBLESHOOT** 29

**CONTACT** 29

**CHANGE LOG** 30

**FIRMWARE UPDATES** 31

# INTRO

the **VONGON *replay*** is a polyphonic synthesizer with multi-mode arpeggiator inspired by the Roland Juno and the Korg Polysix of the early 1980s. designed to embody vintage character while utilizing modernity and versatility of form

***replay*** has a six-voice virtual analog sound engine that emulates the organic response of an analog circuit - enabling you to create a diverse range of sounds from rich pads and vibrant leads to snappy arpeggios and deep sub-bass tones

balancing scope, style and function - ***replay*** has a slim footprint with 22 dedicated sound controls and a 2½-octave keyboard of genuine Cherry MX keys. the intuitive format and sleek design encourages an immersive, hands-on approach to creating your sonic palette

***replay*** seamlessly integrates into your personalized setup with full MIDI I/O via 3.5mm jacks and USB connectivity. compatible with standard effect pedal power supply, ***replay*** connects effortlessly with your pedal board - streamlining your workflow for live performances, studio sessions, etc.

additionally, ***replay*** offers a user-friendly web interface. your command center for managing presets, accessing extended parameters and downloading the latest firmware updates

# WHAT'S IN THE BOX?

- **VONGON *replay***
- power supply
- USB cable
- quickstart manual

# ***replay*** *WEB Interface*

use the ***replay*** *WEB Interface* to manage presets, update firmware, view and edit each parameter. to use the ***replay*** *WEB Interface*, connect your ***replay*** via USB-C and open the web page

## FEATURES

- view and edit all controls (including *secret menu*)
- save/load presets as JSON file
- update firmware
- configure hardware MIDI channel and MIDI adapter type

## URL

https://replay.vongon.com

# GETTING STARTED

## POWER CONNECTION

***replay*** ships with a universal DC power adapter. this standard effect pedal power supply will work with all **VONGON** pedals. if you are using your ***replay*** with an effect pedal - you can daisy chain the synth with the pedals, as seen on a typical pedal board

**POWER REQUIREMENTS:**
9 VDC, Center Negative, 200mA or greater

## AUDIO CONNECTION

***replay*** has ¼" TRS balanced audio input and output. it is perfectly safe to use unbalanced connections. if you experience noise from a power supply or USB connection, utilizing the balanced output will help resolve any issues

## USB

***replay*** has a USB-C port that was designed to be used with ***replay*** *WEB Interface*. you can also use the USB port for USB ***MIDI*** connection to your favorite DAW (digital audio workstation)

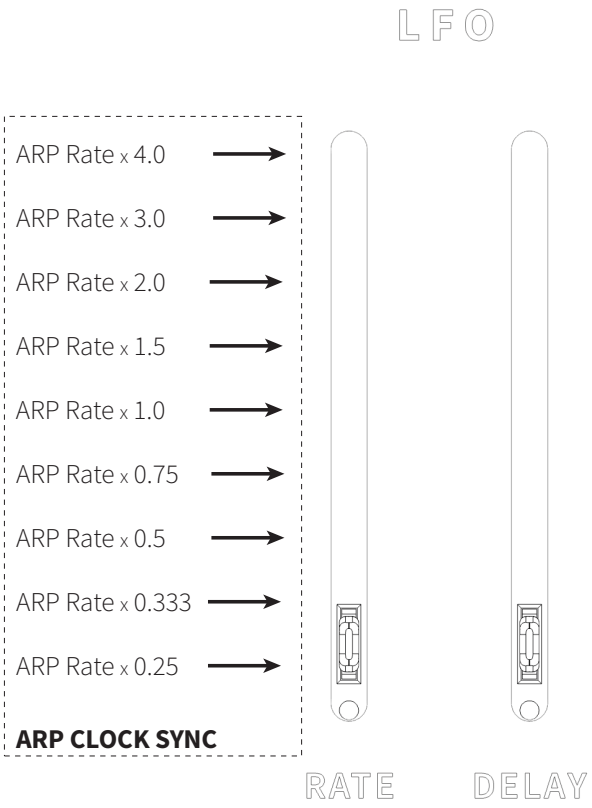
## MIDI

***replay*** has a 3.5mm ***MIDI*** input and output port. these ports can be configured to work with TYPE A or TYPE B adapters - adjust this setting in the ***replay*** *WEB Interface*

# LFO

## LOW FREQUENCY OSCILLATOR

this oscillator generates only low frequency signals (0.1Hz to 30Hz) it can be used to modulate the **OSC** pitch
or the **VCF** frequency




**RATE** - sets the frequency/speed of **LFO**
**DELAY** - sets the time needed for the **LFO** to fade into function after a key is pressed

## WAVEFORMS

the **LFO** is set to sine wave by default, but additional waveforms can be accessed through the *secret menu* ALT controls or ***replay*** *WEB Interface*

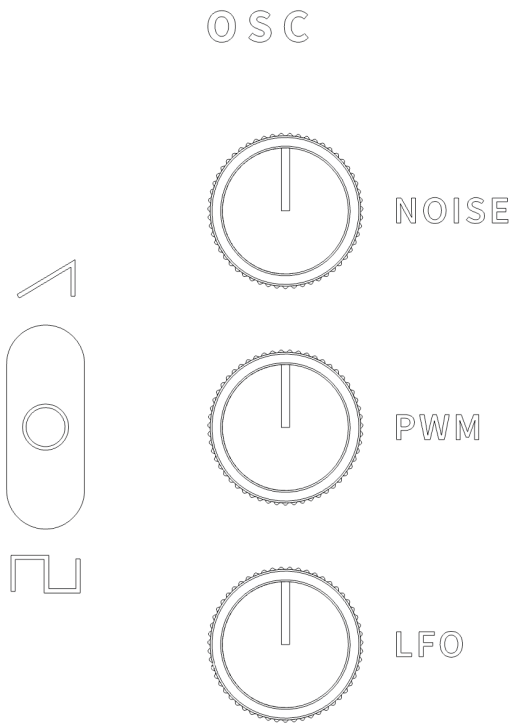
## APR CLOCK SYNC

sync the **LFO** clock with the **APR** rate for rhythmic effects, this can be accessed through the *secret menu* ALT controls or ***replay*** *WEB Interface*

# OSC

## OSCILLATOR

the **OSC** is the primary sound source of ***replay***. each of the six voices are assigned to their corresponding **OSC** - producing four different waveforms, as well as a white noise generator




**WAVEFORM** - sets the output waveform of the **OSC**. additional waveforms can be accessed through the *secret menu* ALT controls or ***replay*** *WEB Interface*

**TOP** - saw wave output
**CENTER** - mutes the **OSC** so that the noise or external audio input can by used by itself
**BOTTOM** - pulse wave output

**NOISE/EXTERNAL INPUT LEVEL** - sets the level of the white noise or external audio input signal. configure the input mode through the *secret menu* ALT controls or ***replay*** *WEB Interface*

## **OSC** (continued)

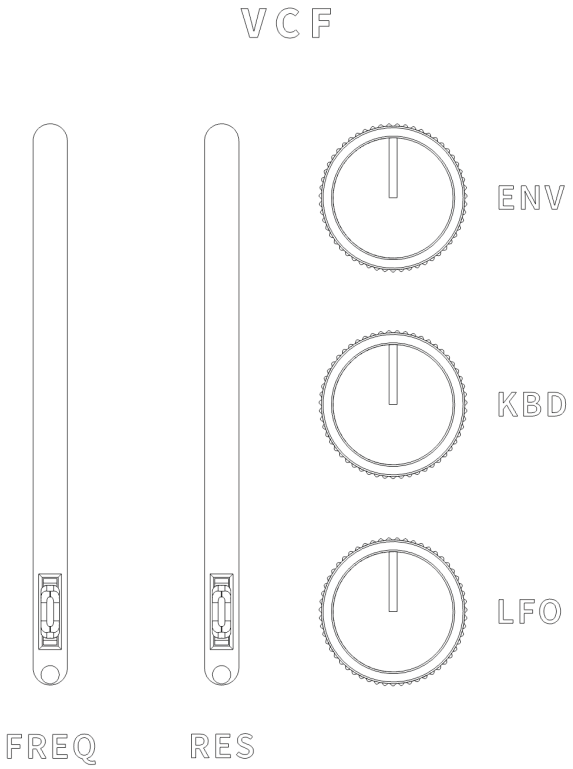
**PULSE WIDTH MODULATION** - this only affects the pulse wave (waveform in bottom position). it adjusts pulse width when set to manual mode, or the intensity of modulation from the **LFO** when set to **LFO** mode. adjust mode through the *secret menu* ALT controls or ***replay*** *WEB Interface*

**OSC LFO AMOUNT** - adjusts the depth of pitch modulation on the **OSC** output coming from the **LFO**. max value adjusts **OSC** pitch up and down 1 octave

# VCF

## VOLTAGE CONTROLLED FILTER

the **VCF** is a 4 pole resonant low pass ladder filter that changes the tone color by cutting off or emphasizing harmonics. this filter can also self-oscillate and be used as an additional sine wave oscillator




**FREQUENCY** - sets the cutoff point of the filter. as you lower the slider, higher frequencies will be cut off and the sound will eventually fade out as you filter out all audible frequencies

**RESONANCE** - this control emphasizes the cutoff point set by the frequency slider. as you raise the slider past 80% the filter will start to self oscillate

## **VCF** (continued)

**ENVELOPE AMOUNT** - sets the amount of cutoff frequency modulation coming from the envelope. by default, the envelope adds to the cutoff frequency, but the envelope can be inverted through the *secret menu* ALT controls or ***replay*** *WEB Interface*

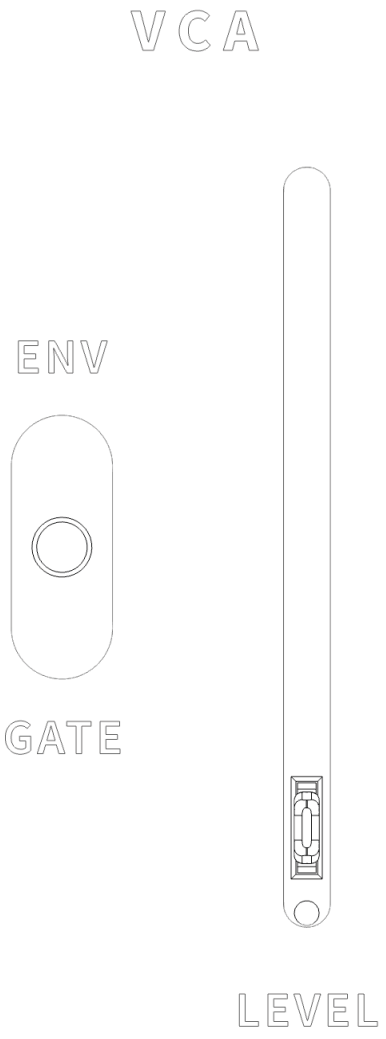
**KEYBOARD AMOUNT** - sets the amount of cutoff frequency modulation coming from the **OSC** pitch. this control can be used to make the filter brighter as you play higher notes. if you set this control to 100% the **VCF** frequency to **OSC** pitch modulation will be 1:1 so you can use the filter to harmonize with the notes that are played

**VCF LFO AMOUNT** - sets the amount of cutoff frequency modulation coming from the **LFO**

# VCA

## VOLTAGE CONTROLLED AMPLIFIER

the **VCA** controls the volume or amplitude of the sound output from each voice




**VCA MODE** - sets the control signal for the **VCA**

**TOP (ENV)** - sets the envelope output to control the **VCA**
**CENTER (GATE with RELEASE)** - combines the top and bottom controls to create a modified gate signal that matches the release of the envelope
**BOTTOM (GATE)** - sets the voice gate output to control the **VCA**

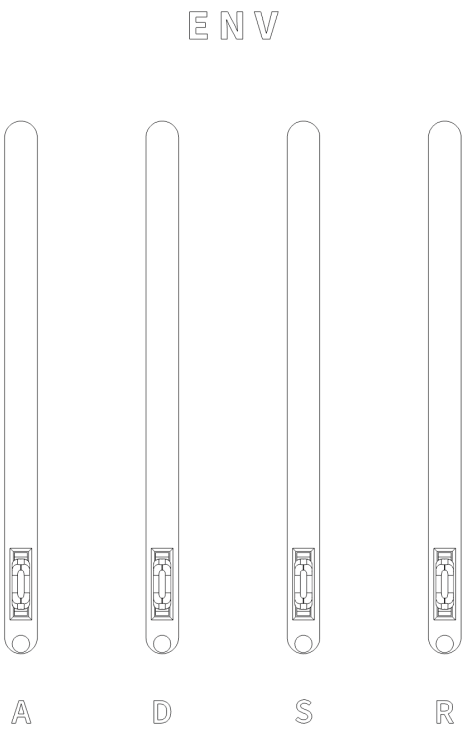
**LEVEL** - sets the maximum level of the **VCA**. this control can be used to match the volume between presets

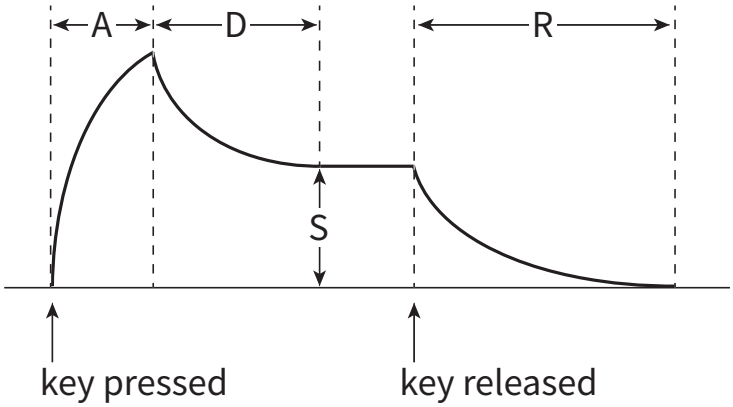
**NOTE:** if you are hearing a clipping distortion when playing large chords, this parameter might be too high and can cause distortion when all 6 voices are added together

# ENV

## ENVELOPE GENERATOR

the envelope generates a control signal which is applied to the **VCF** and **VCA** - controlling the volume and the tone of each note. this signal is generated whenever you press a key or trigger a note with the **ARP**




**ATTACK** - sets the time required for the **ENV** to reach its maximum from the moment it is triggered

**DECAY** - sets the time required for the **ENV** to drop from the maximum to the sustain level. when the sustain level is high, the decay time has no effect

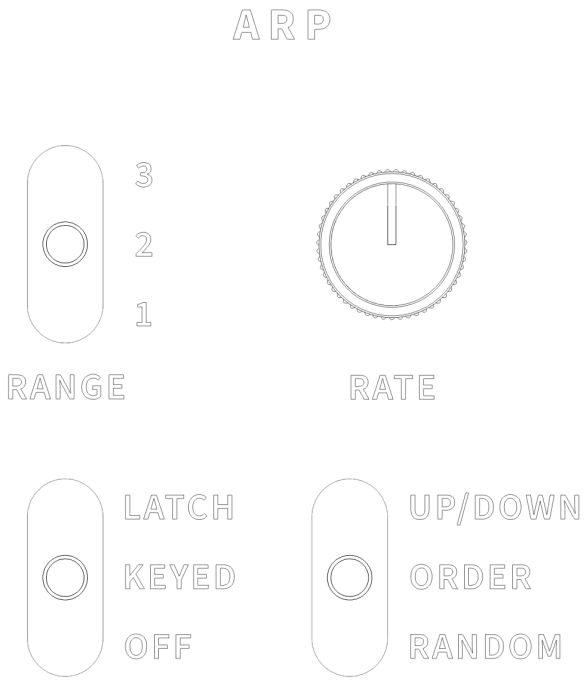
**SUSTAIN** - sets the sustain level when a key is held

**RELEASE** - sets the time required for the **ENV** to reach zero after a key is released

# ARP

## ARPEGGIATOR

the ***arpeggiator*** automatically sequences individual notes of a chord at the users desired speed, in three different patterns




**OCTAVE RANGE**

**TOP (3)** - arpeggiates the notes held or latched, plus the same notes on the second and third higher octaves
**CENTER (2)** - arpeggiates the notes held or latched, plus the same notes on the second higher octave
**BOTTOM (1)** - arpeggiates only the notes notes held or latched

## **ARP** (continued)

**ARP MODE**

**TOP (LATCH)** - notes played are memorized or latched and will continue to be arpeggiated when you release the key. the latch behavior changes based on the current latch mode - set through the *secret menu* ALT controls or ***replay*** *WEB Interface*

**ALL-LATCH** - all key presses will add to the set of notes arpeggiated. clear the latched set by switching the mode to keyed or off. you can hold a chord while switching the mode from latched to keyed for a smooth transition into a new chord

**RE-LATCH** - key presses will add to the set of arpeggiated notes if at least one key is held down. when all keys are released, a new key press will clear the **ARP** note set and create a new chord. this mode makes it more convenient to quickly switch between arpeggiated chords

**CENTER (KEYED)** - only notes that are currently held down will be arpeggiated
**BOTTOM (OFF)** - arpeggiator is of

**ARP RATE** - sets the speed at which the arpeggio is played. when no ***MIDI*** clock is detected, the range is from (0.1Hz to 30Hz) when ***MIDI*** clock is detected, the **ARP** will trigger based on the ***MIDI*** clock signals received

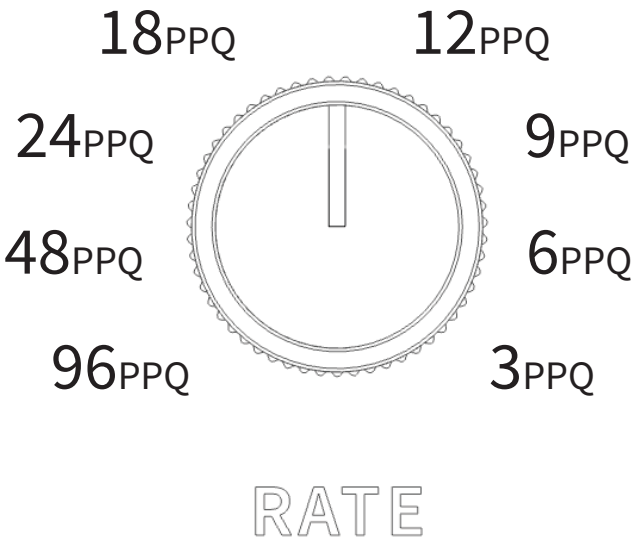
**NOTE ORDER** - sets the order notes are played in the arpeggio

**TOP (UP/DOWN)**- notes are played ascending then descending
**CENTER (ORDER)** - notes are played in the order they were pressed
**BOTTOM (RANDOM)** - notes are played at random
*(UP)* - notes are played ascending
*(DOWN)* - notes are played descending
*(CONVERGE)* - alternates between lowest and highest notes, moving inward

**NOTE:** set **UP, DOWN,** and **CONVERGE** through the *secret menu* ALT controls or ***replay*** *WEB Interface*

**ARP** (continued)

24PPQ = 1 quarter note

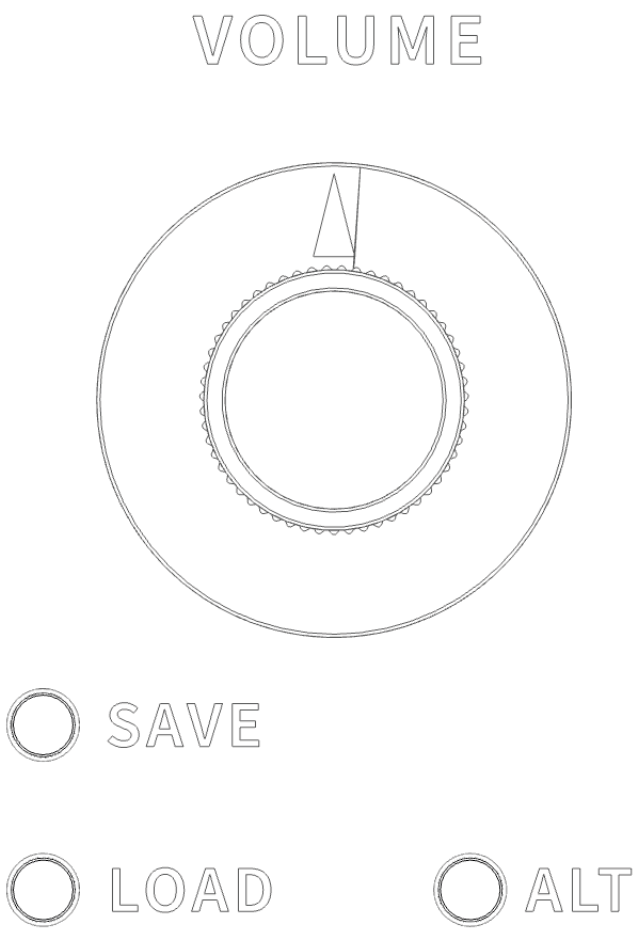



**MIDI BEAT SYNC** - when a ***MIDI*** clock signal is detected the **ARP** will beat sync to the clock source in the standard 24PPQ (pulse per quarter note) format. this style of beat sync will count the ***MIDI*** clock messages and trigger a new note when the threshold, set by the rate knob, has been reached. when pressing a note slightly before the downbeat, the **ARP** will wait until the PPQ threshold has passed to play your note - keeping the phase of your arpeggio in sync with the clock source

**NOTE:** when you decrease the threshold to 6PPQ or lower, the **ARP** is more sensitive to ***MIDI*** clock jitter, which can translate into rhythmic jitter. if this happens, try decreasing the number of ***MIDI*** devices in your chain or use USB ***MIDI*** to increase performance

*set the rate knob to 24PPQ - note every quarter note
*set the rate knob to 12PPQ - note every eighth note
*set the rate knob to 6PPQ - note every sixteenth note
* ***MIDI*** start and reset commands will reset the **ARP** beat sync counter

# MAIN




**SAVE** - use this button to save a ***replay*** preset onto the internal memory

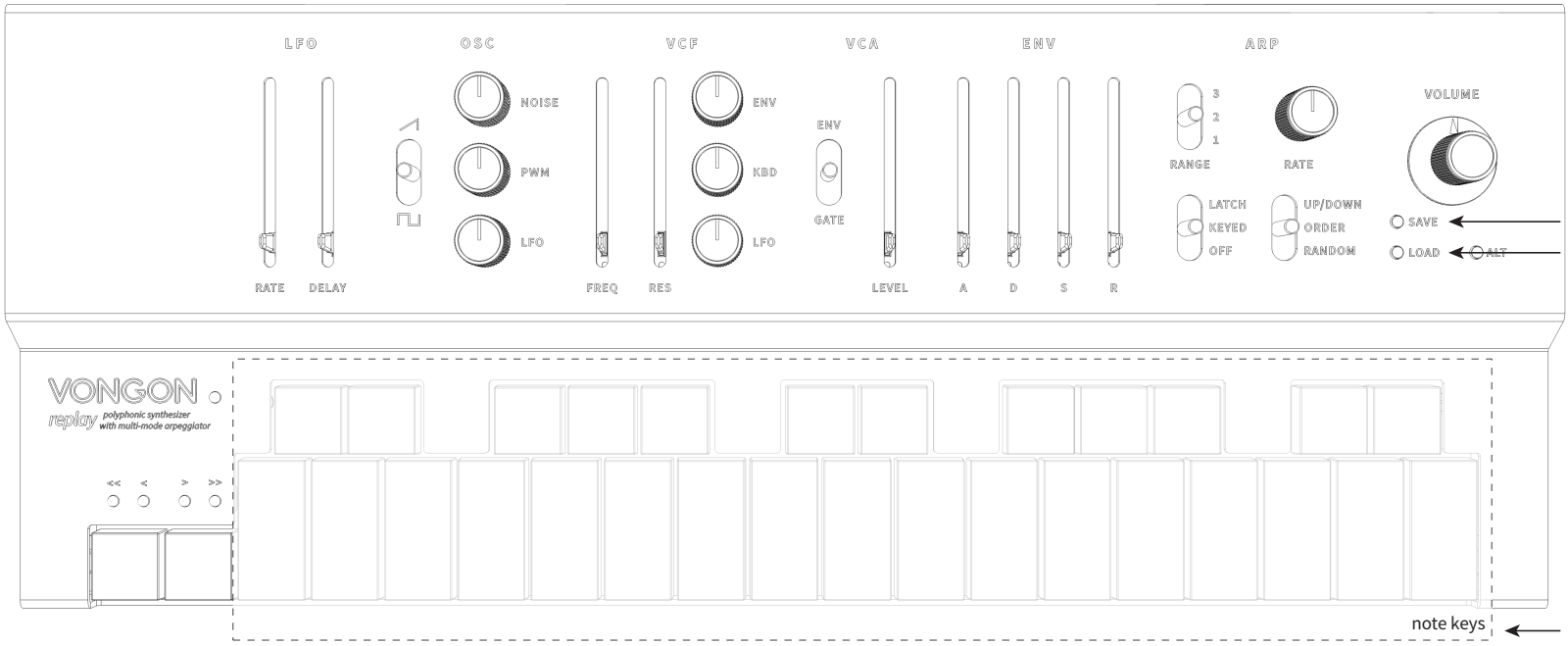
**LOAD** - use this button to load a ***replay*** preset from the internal memory

**VOLUME** - sets the volume output of ***replay***. this parameter is the global volume control and is not saved into presets

**ALT** - use this button to access the *secret menu*

# PRESETS

you can save ***replay*** presets in two ways




**HARDWARE PRESETS** - allows quick access to your favorite sounds (ideal for live performances) ***replay*** can store up to 29 presets (one per note key) in its internal storage

**SAVE** - hold down the **SAVE** button, then press and hold the desired preset note key for 3s. the purple **VONGON** LED will blink slowly three times - confirming the preset has been saved

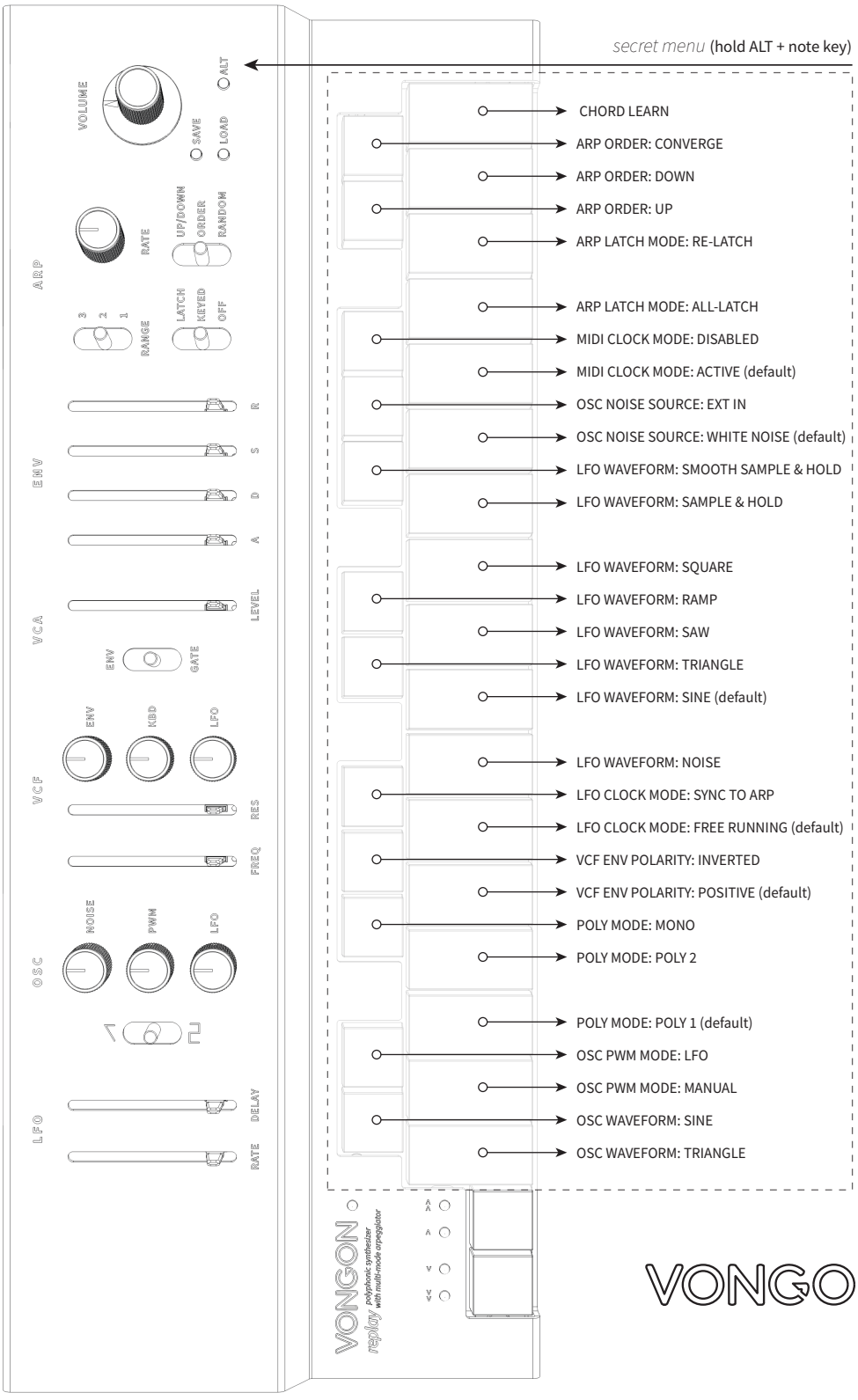
**LOAD** - hold down the **LOAD** button, then press the desired preset note key. the purple **VONGON** LED will blink rapidly - confirming the preset has been loaded

**NOTE KEY** - any note key can be used as a preset

**SOFTWARE PRESETS** - connect ***replay*** via USB to save and load presets through the ***replay*** *WEB Interface* on your computer. you can view, create, save and load presets to build your own library of your favorite sounds and share your presets with other ***replay*** users

# *secret menu*

the **ALT** button enables you to access additional modes on the ***replay*** *secret menu*. all of these parameters can be saved into a preset for easy access and are visible on the ***replay*** *WEB Interface*



*secret menu* (continued)

**ALT** - hold down the **ALT** button to access the ***replay*** *secret menu*, then press a note key. the four white octave LEDs will blink rapidly - confirming that the corresponding mode was selected

**ALT FUNCTIONS DEFINED**

**MIDI CLOCK MODE** - enable or disable the ***replay*** to recognize ***MIDI*** clock

**OSC NOISE SOURCE** - choose the signal source for the **NOISE** knob. by default, the source is white noise. if you enable the EXT IN, the **NOISE** knob will set the volume level of the incoming audio from the EXT IN input jack

**LFO WAVEFORM** - modify the **LFO** waveform for a variety of modulation effects ie. sine, triangle, saw, ramp, square, sample & hold, or smooth sample & hold

**VCF ENV POLARITY** - **ENV** will increase (positive) or decrease (inverted) the **VCF** cutoff frequency

**POLY MODE** - voice allocation modes

**POLY 1** - keeps all notes ringing as long as possible - think playing a piano with the sustain pedal pushed down. when playing a new note, if all 6 voices are already held down (playing a six note chord), new notes will not create sound until one of the six held notes are released. if any voices are released but still sounding from their release stage, the oldest released voice will be reassigned to the new note

**POLY 2** - ideal for chord changes that you don't want bleeding into previously played chords - particularly useful when playing low notes that can get muddy. when playing a new note, this mode will respond as **POLY 1** unless all keys have been released, then all voices in the release stage will be muted

**MONO** - single voice mono synth, priority given to the most recent key pressed

**OSC PWM MODE** - determines the way the **OSC PWM** knob works. in manual mode, the knob statically adjusts the pulse wave of **OSC**. in **LFO** mode, the knob adjusts the depth of **LFO** modulation on the pulse wave of **OSC**, creating chorus-like sounds

**OSC WAVEFORM** - adds sine and triangle waveforms to the **OSC**

**ARP LATCH MODE** - adjusts **ARP** latch mode

**ARP ORDER** - additional options for order of notes played on **ARP**

**CHORD** - activates chord learn mode

# MIDI

use 3.5mm ***MIDI*** ports or USB-C port to interact with ***replay MIDI*** controls

## MIDI ADAPTER

by default, replay expects TYPE A style ***MIDI*** adapters. you can switch the ***MIDI*** adapter type to TYPE B with the ***replay*** *WEB Interface*

## MIDI CHANNEL

to assign a ***MIDI*** channel to ***replay***, use the ***replay*** *WEB Interface* or use ***MIDI*** channel learn mode. power up the device while holding **ALT** - the four white octave LEDs will blink, indicating that ***replay*** is in ***MIDI*** channel learn mode. ***replay*** will assign itself to the ***MIDI*** channel of the next incoming ***MIDI*** message

## MIDI CLOCK SYNC

***replay*** can sync the **ARP** and **LFO** to the ***replay*** clock

# **MIDI** (continued)

## CONTINUOUS CONTROLLER MESSAGES

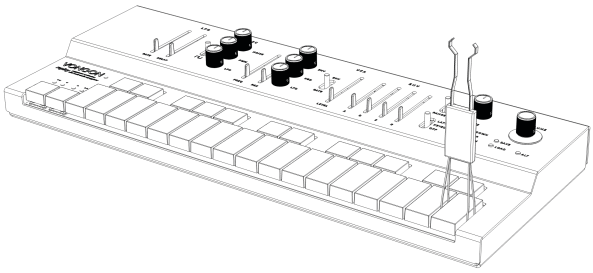
| MIDI MESSAGE | PARAMETER | VALUES | SEND | RECEIVE |
|---|---|---|---|---|
| CC# 85 | LFO RATE | 0-127 | ☑ | ☑ |
| CC# 88 | LFO DELAY | 0-127 | ☑ | ☑ |
| CC# 83 | OSC WAVEFORM | 0: Saw, 1: Off, 2: Square, 3: Tri, 4: Sine | ☑ | ☑ |
| CC# 84 | OSC NOISE | 0-127 | ☑ | ☑ |
| CC# 87 | OSC LFO | 0-127 | ☑ | ☑ |
| CC# 92 | OSC PWM | 0-127 | ☑ | ☑ |
| CC# 74 | VCF FREQ | 0-127 | ☑ | ☑ |
| CC# 71 | VCF RES | 0-127 | ☑ | ☑ |
| CC# 75 | VCF ENV | 0-127 | ☑ | ☑ |
| CC# 86 | VCF LFO | 0-127 | ☑ | ☑ |
| CC# 81 | VCF KBD | 0-127 | ☑ | ☑ |
| CC# 80 | VCA MODE | 0-127 | ☑ | ☑ |
| CC# 91 | VCA LEVEL | 0-127 | ☑ | ☑ |
| CC# 76 | ENV ATTACK | 0-127 | ☑ | ☑ |
| CC# 77 | ENV DECAY | 0-127 | ☑ | ☑ |
| CC# 78 | ENV SUSTAIN | 0-127 | ☑ | ☑ |
| CC# 79 | ENV RELEASE | 0-127 | ☑ | ☑ |
| CC# 100 | ARP RANGE | 0: 1 Octave, 1: 2 Octaves, 2: 3 Octaves | ☑ | ☑ |
| CC# 101 | ARP MODE | 0: Off, 1: Keyed, 2: Latch | ☑ | ☑ |
| CC# 102 | ARP RATE | 0-127 | ☑ | ☑ |
| CC# 103 | ARP ORDER | 0: Up/Down, 1: Order, 2: Random | ☑ | ☑ |
| CC# 104 | MAIN VOLUME | 0-127 | ☑ | ☑ |
| CC# 40 | POLY MODE | 0: Poly 1, 1: Poly 2, 2: Mono | ☑ | ☑ |
| CC# 41 | LFO WAVEFORM | 0: Sine, 1: Tri, 2: Saw, 3: Ramp, 4: Square, 5: S&H, 6: Smooth S&H | ☑ | ☑ |
| CC# 42 | LFO CLOCK MODE | 0: Free running, 1: Sync to ARP | ☑ | ☑ |
| CC# 43 | OSC PWM MODE | 0: Manual, 1: LFO | ☑ | ☑ |
| CC# 44 | VCF ENV POLARITY | 0: Normal, 1: Inverted | ☑ | ☑ |
| CC# 45 | OSC NOISE MODE | 0: Noise knob controls white noise level<br>1: Noise knob controls EXT IN level | ☑ | ☑ |
| CC# 46 | MIDI CLOCK MODE | 0: Enabled (MIDI Clock affects ARP Rate)<br>1: Disabled (ARP rate is normal) | ☑ | ☑ |
| CC# 10 | Octave Up Key | 0-127 | ☐ | ☑ |
| CC# 11 | Octave Down Key | 0-127 | ☐ | ☑ |
| CC# 12 | Save Button | 0-127 | ☐ | ☑ |
| CC# 13 | Load Button | 0-127 | ☐ | ☑ |
| CC# 14 | Alt Button | 0-127 | ☐ | ☑ |
| CC# 64 | SUSTAIN PEDAL | 0-63: OFF, 64-127: ON | ☐ | ☑ |

# SWITCH REPLACEMENT

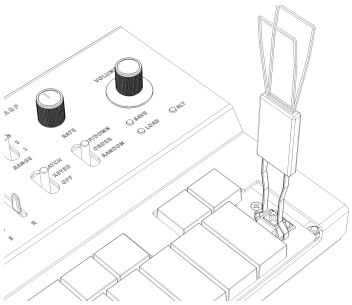
***replay*** ships from the factory with Cherry MX Black style switches. the keybed uses hot-swap sockets so that you can replace the switches with any MX compatible style switch to modify actuation force, tactile feedback, and noise level

***IMPORTANT:** disconnect the power cable and replace one switch at a time. this will keep the assembly safe, sturdy and easy to work with

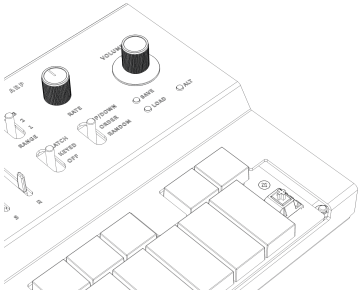
**REMOVE KEYCAP** - using a key puller, remove the keycap



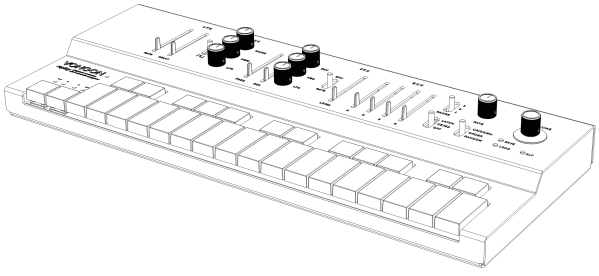
**REMOVE SWITCH** - using a switch puller, remove the switch



**INSERT NEW SWITCH** - insert the new switch, making sure that the electrical contacts go into the switch socket



**REINSERT KEYCAP** - press the keycap down on the newly inserted switch

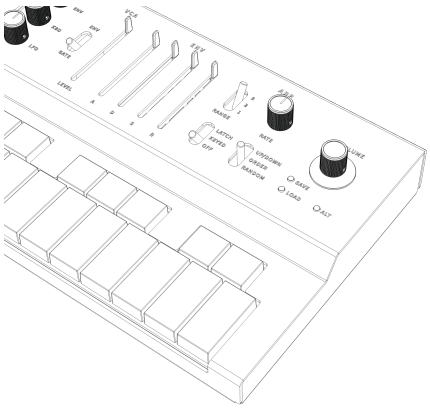


# CHORD MODE

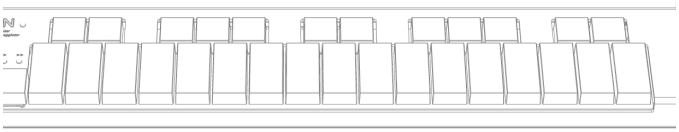
***replay*** can learn custom chord shapes that can be triggered with a single key press. chords can be programmed directly on the hardware or through the ***replay*** *WEB Interface*. chords are saved within each preset, and when used with the **ARP**, the arpeggiator will individually cycle through the chord tones

## PROGRAMMING A CHORD ON ***replay*:**

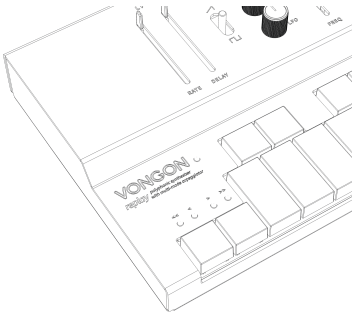
**ENTER CHORD LEARN MODE** - hold **ALT** and press the **CHORD** key on the keybed (highest note key). the octave indicator LEDs will begin flashing, indicating that replay is ready to learn a chord



**PLAY YOUR CHORD** - press and hold all notes in the desired chord shape, release the keys once the chord is set

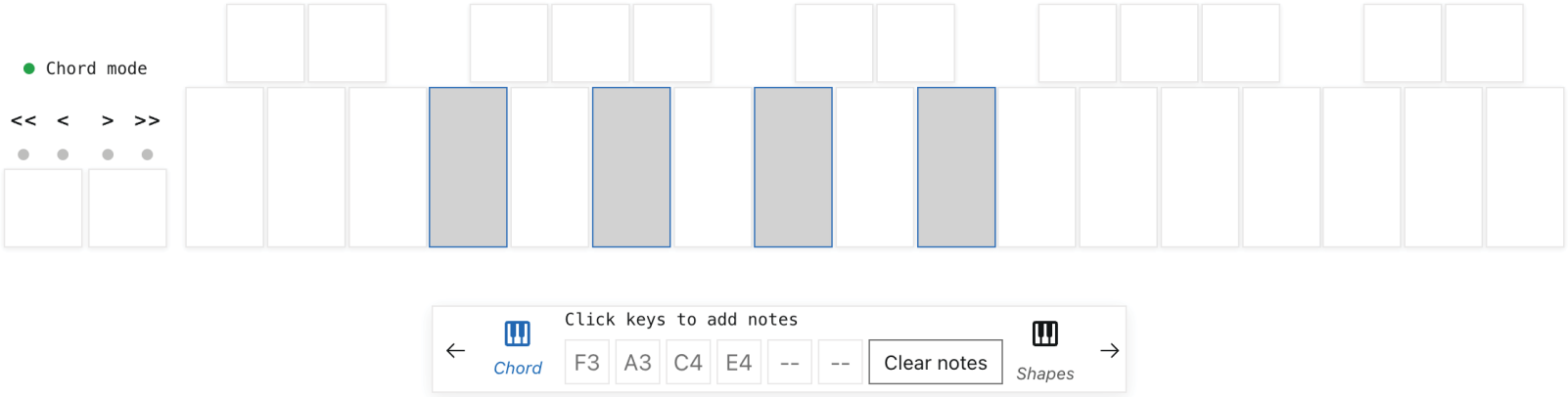


**CONFIRM** - the octave indicator LEDs will stop flashing, confirming that the chord is stored. now, pressing a single key will trigger the full chord



## **PROGRAMMING A CHORD ON *replay*** *WEB Interface:*

the ***replay*** *WEB Interface* provides a visual interface for programming chords. use the chord menu to view, add, or remove notes, and make real-time adjustments to your preset



# EXTENDED WARRANTY & SUPPORT

**VONGON** will repair or replace any malfunctioning product within one year from the purchase date. problems resulting from modification or misuse may void this warranty. this warranty applies only to the original owner of the product - proof of purchase is required. we will happily diagnose and repair any **VONGON** product, even if it is out of warranty - shipping and repairs are at the owner's expense

# TROUBLESHOOT

if you encounter issues, here are some common problems and their solutions: replay.vongon.com/help#troubleshooting

# CONTACT

please feel free to reach out with any questions or concerns
support@vongon.com

# CHANGE LOG

| VERSION | DATE | DESCRIPTION |
|---|---|---|
| V1.0 | JAN 5 2024 | INITIAL COMMIT |
| V1.0.1 | FEB 29 2024 | ADD SWITCH REPLACEMENT PROCESS |
| V1.1 | APR 26 2024 | UPDATE FOR FIRMWARE V1.1 |
| V1.3 | MAR 5 2025 | UPDATE FOR FIRMWARE V1.3 (SEE NEXT PAGE FOR DETAILS) |
| V1.3.1 | JUN 7 2025 | DOCUMENTATION UPDATES ON FIRMWARE V1.3 |
| V1.3.2 | JUL 24 2025 | DOCUMENTATION UPDATES ON POLY 1 + 2 BEHAVIOR |
| V1.3.3 | JUL 28 2025 | ADD “TROUBLESHOOT” SECTION |

# FIRMWARE UPDATES

use the ***replay*** *WEB Interface* to update firmware

**FIRMWARE V1.1 UPDATES (APR 26 2024**)

**NEW FEATURES**

**GLIDE** - hold **ALT** while adjusting **LFO DELAY** slider to adjust glide amount, also accessible in the ***replay*** *WEB Interface* ***MIDI*** CC#105
**POLY MODE 1+2** - steal from oldest pressed voice when more than six keys are pressed
**SUSTAIN *MIDI* CC#64** - value >63 turns sustain “on”
- value ≤63 turns sustain “off”

**ADDITIONAL UPDATES**

- turning off **ARP** will re-trigger any notes currently held down on keybed
- mono mode updated to re-trigger the most recently held key during note release
- **ARP** latch while in POLY 2 will not reset the arp clock, making chord transitions smoother
- ***replay*** will send ***MIDI*** note messages for every **ARP** note
- improved noise filtering on the keybed for more stable performance

## FIRMWARE V1.3 UPDATES (MAR 5 2025)

### NEW FEATURES

**CHORD MODE** - ***replay*** can learn custom chord shapes
**LFO PITCH RANGE** - expanded to ±1 octave
**LFO SHAPE** - added NOISE waveform
**ARP ORDER** - added new order options: up, down, converge

### ADDITIONAL UPDATES

**ARP (RANDOM MODE)** - fixed issue where range 2 & 3 keys remained hanging after release
**ARP (ORDER MODE)** - fixed issue where pressing multiple keys simultaneously would not trigger all notes
**POLY MODE 1+2** – resolved voice stealing issue so held notes will never mute