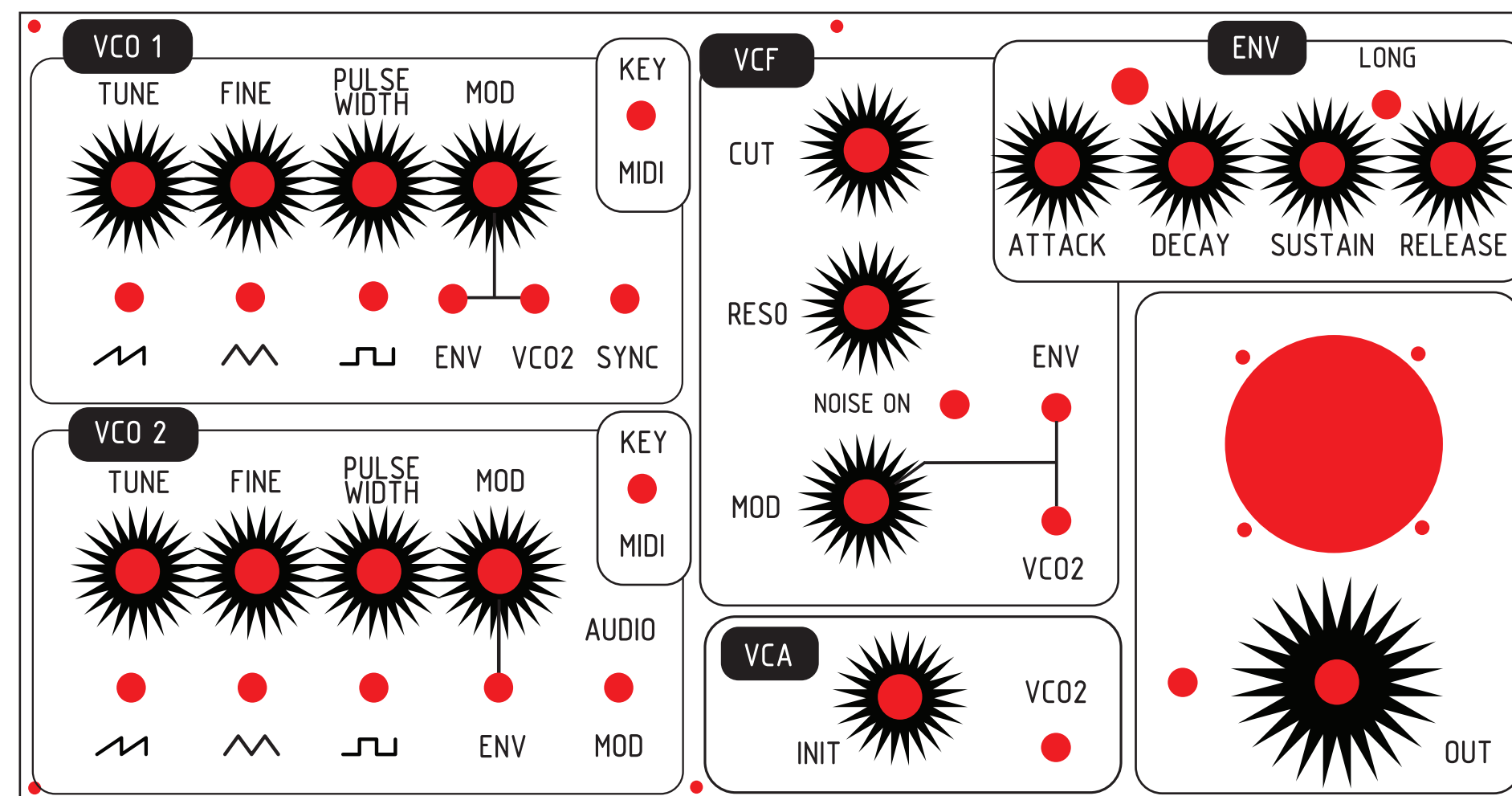


MANUAL



VCO 1 - VOLTAGE CONTROLLED OSCILLATOR

Main VCO used as lead voice

TUNE - Initial Pitch

FINE - adjust the fine Pitch if the Oscillator

PULSE WIDTH - adjust the width of the SQUARE WAVE - do not work for triangle and Saw

MOD - amount of the modulations coming from ENVELOPE and VCO2

SYNC - Put both Oscillators in SYNC

WAVE SWITCHES - select wave to go from VCO to Filter.

VCO 2 - VOLTAGE CONTROLLED OSCILLATOR

Main VCO used as second voice OR Modulation (LFO)

TUNE - Initial Pitch

FINE - adjust the fine Pitch if the Oscillator

PULSE WIDTH - adjust the width of the SQUARE WAVE - do not work for triangle and Saw

MOD - amount of the modulations coming from ENVELOPE

AUDIO/MOD - the range of the VCO. Audio is High, MOD is low - LFO

WAVE SWITCHES - select wave to go from VCO to Filter/VCO1 or VCA.

VCF - Voltage Controlled Filter

CUT - the cutoff frequency

RESO - The resonance of the Filter

MOD - The amount of ENVELOPE and/or VCO 2 into the CUTOFF

NOISE - Adds white noise to the filter

ENVELOPE GENERATOR

Attack - The time voltage comes from zero to Max

Decay - The time voltage comes from Max until the SUSTAIN LEVEL

Sustain - The level/voltage it will be hold when key is pressed

Release - The time the voltage comes from Sustain level to zero

LONG - makes the Release longer.

VCA - VOLTAGE CONTROLLED AMPLIFIER

INIT - if all to the left makes sound come out only if key is pressed or switch is up.
if all to the right, let sound pass

VCO 2 - sends VCO2 as modulation to VCA. Better with VCO2 as MOD (slow rates)

KEY/MIDI

Select is the pitch information is coming from the MIDI IN or the Keyboard.

KEYBOARD

The Keyboard is not very accurate, just a way to have immediate fun with the synth

MIDI

Channel one - has 3 or 4 octaves of precise tuning.

TUNNING -

Mutuca uses 3340 VCOs.

They are temperature sensitive.

After you turn it on, it will take 10 to 15 minutes to become stable.

before that you might notice some drift.

any questions :

arthurjoly@gmail.com