ADDAC System ADDAC107 Eurorack Module User Guide

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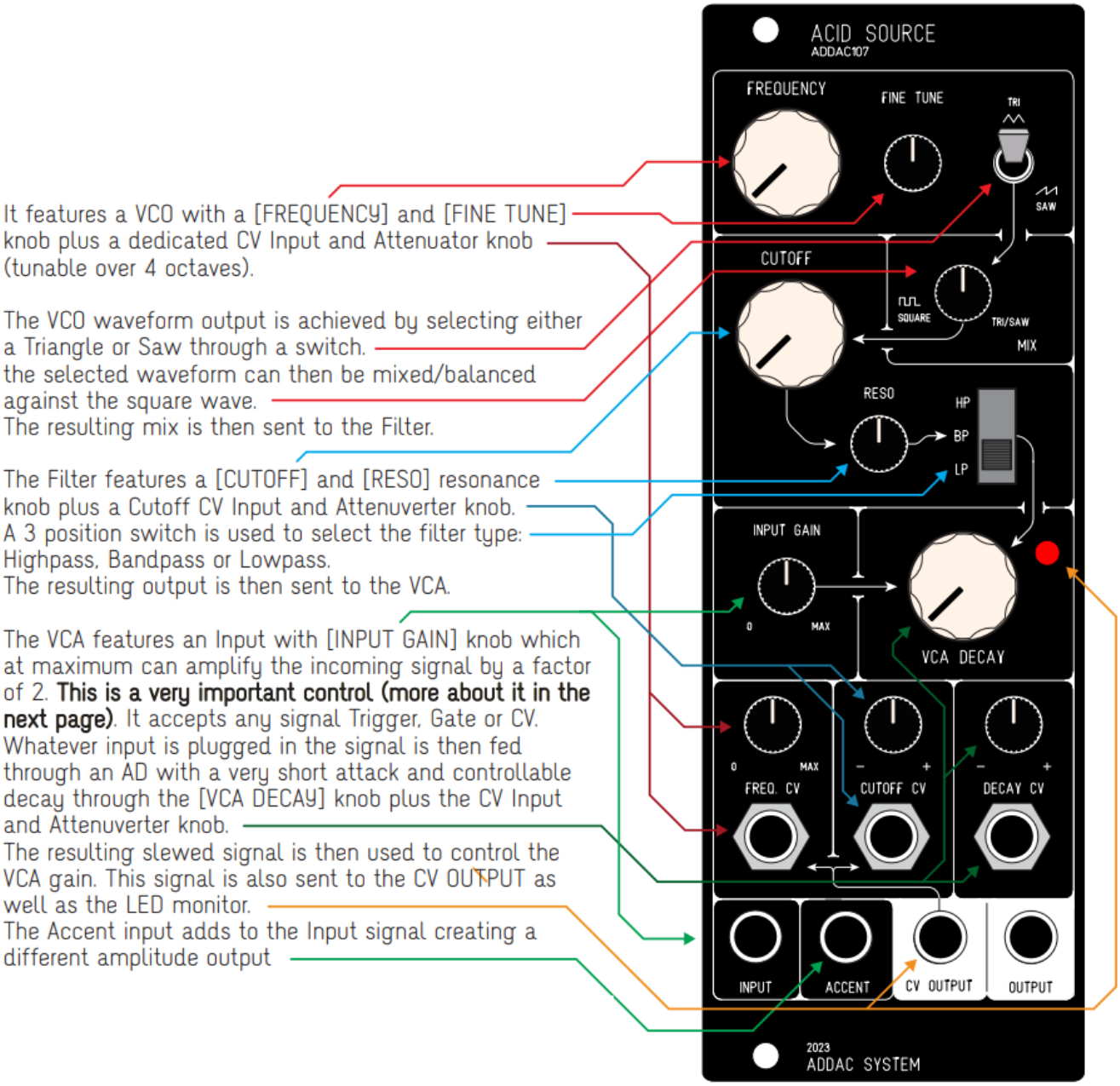
DESCRIPTION

We started this module with the idea of developing a complex drum source however, somewhere along the process, we noticed how much better it performed as a synth voice and simply embraced this lucky accident.



The CV OUTPUT is also normalled to the Frequency and Cutoff inputs.

This module will also be available as a full DIY kit.

Tech Specs: 9HP 4 cm deep 80mA +12V 80mA -12V

INPUT GAIN

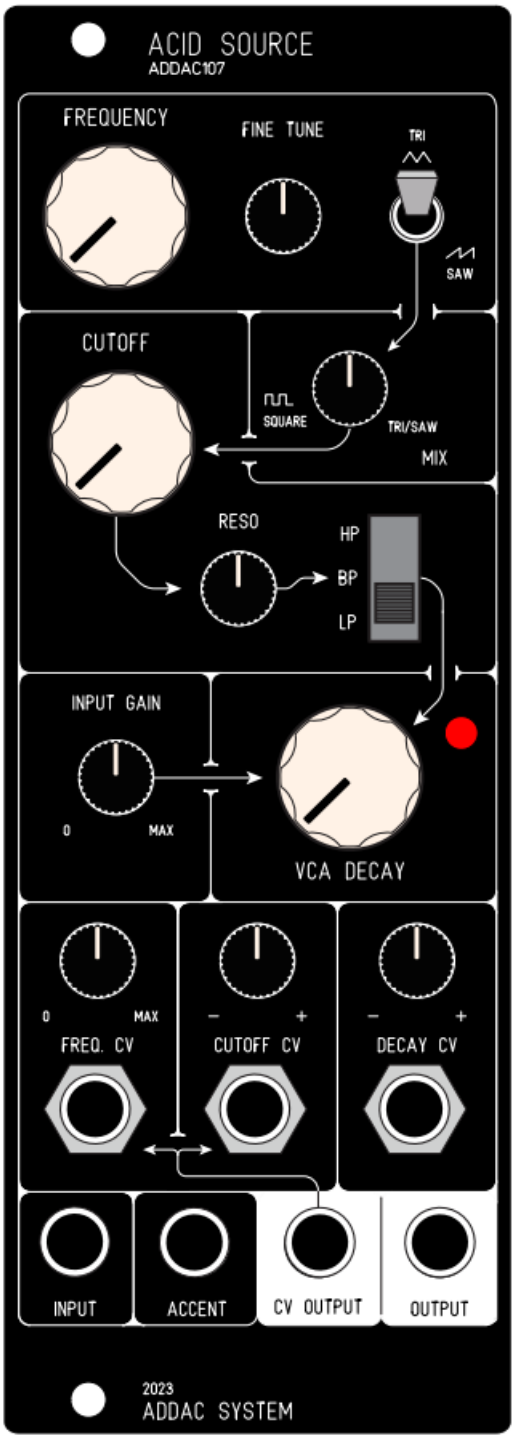
The [INPUT GAIN] knob,
Usually Attack/Decay envelopes have a maximum voltage of +5v, no matter if the input gate is +5v or above the AD will clip at +5v. In this case we did not use this clipping method and instead allow the incoming voltage to determine the maximum AD voltage, meaning that if a +5v gate is present then the AD maximum voltage will be +5v but if a gate of +10v is sent then the AD maximum voltage will be +10v. This also means that with higher input voltages the decay, although falling at the same speed, will be longer than with lower voltages as it has a longer range to go back to 0v.
As we mentioned before the [INPUT GAIN] knob can amplify the incoming input by a factor of 2, allowing to use a standard +5v gate or envelope and being able to make the resultant AD go up to +10v.

The AD signal is responsible for opening the VCA. Up to +5v the VCA will open to unity gain above this value the

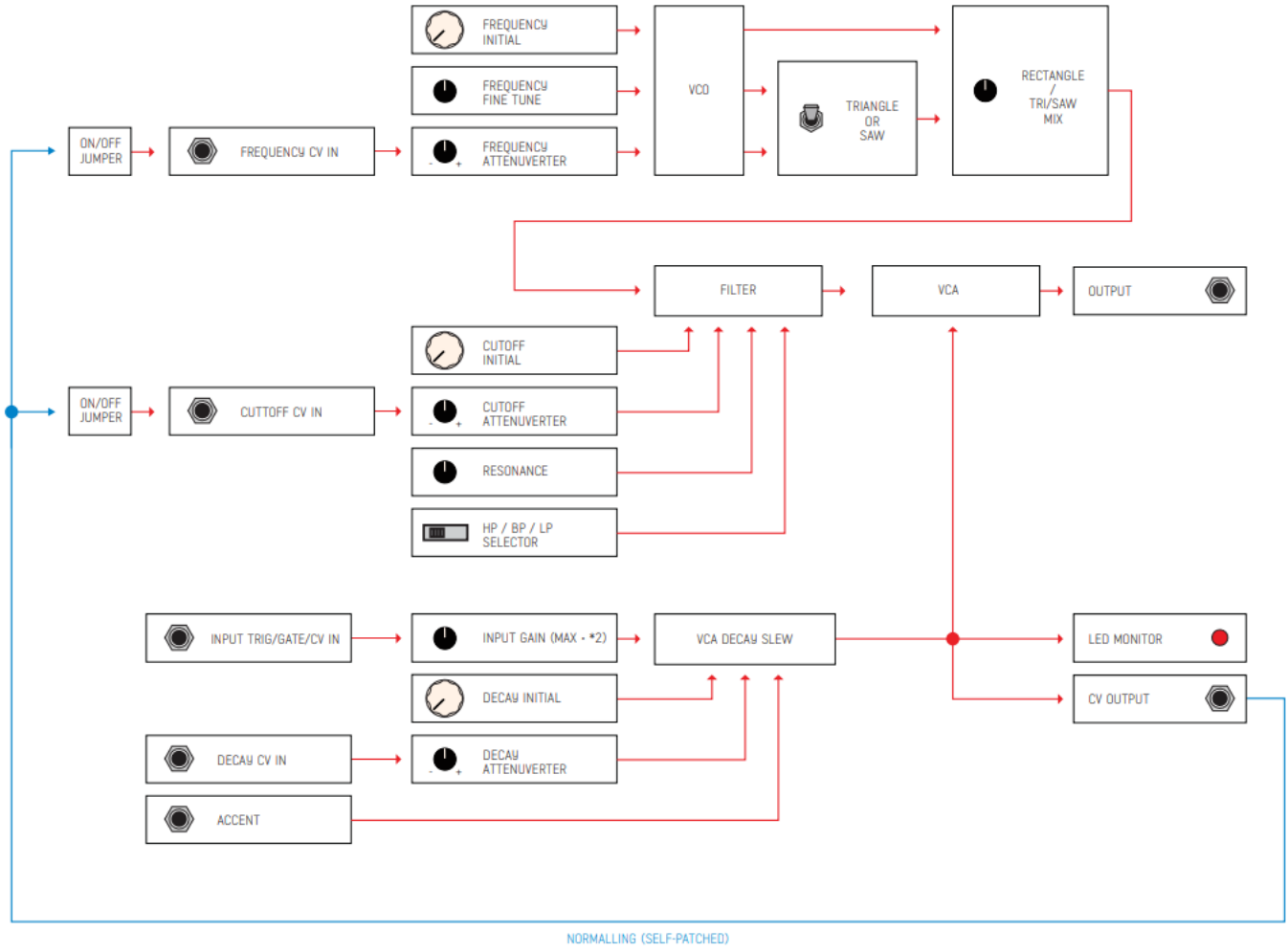
VCA will start to amplify and eventually saturate and distort.

This saturation will add harmonics to the signal which will change it’s gentle timbrical nature to a more unique and peculiar timbre that will make the module shine in Acid contexts.

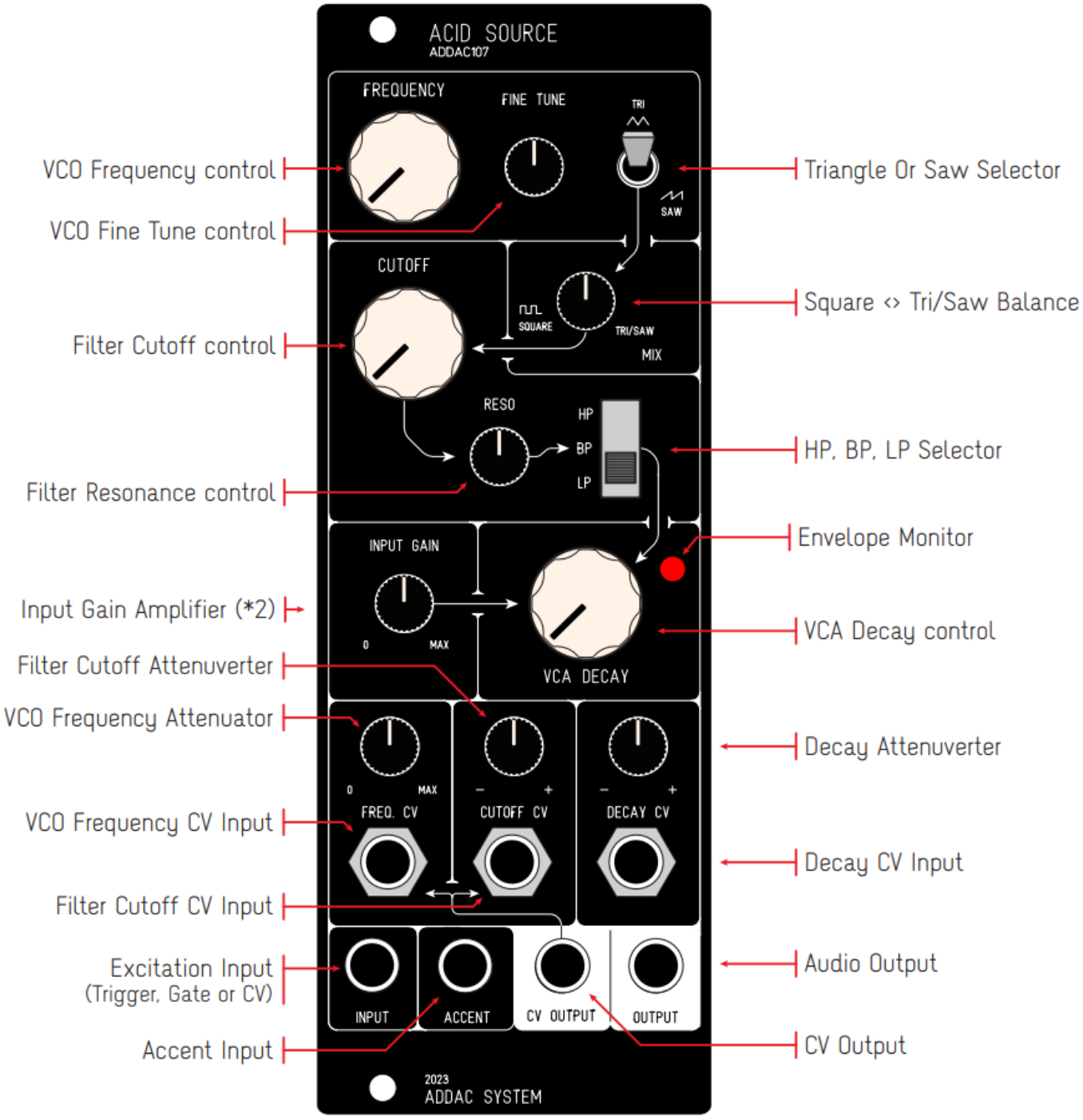
Adding high levels of Resonance or even filter self oscillation in combination with high VCA saturation will create even more harmonics that we highly encourage the user to explore.



SIGNAL FLOW DIAGRAM



CONTROLS DESCRIPTION



For feedback, comments or problems please contact us at: addac@addacsystem.com

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Documents / Resources

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