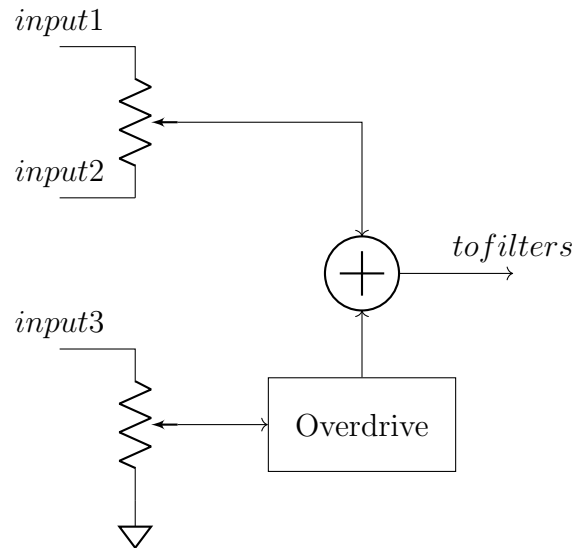


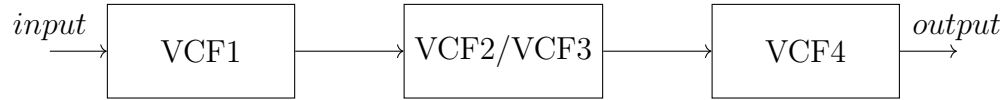
Input mixer

The input stage contains of a small mixer with two potentiometers; one mix between input 1 and input 2 and the other is the volume for input 3 that also goes through an overdrive.



Filter(s)

Right now the idea is to have a filter chain with a pre-processing filter, a dual filter that can be configured in different ways and a post-processing filter. This is, of course, not definitely settled. Yet.



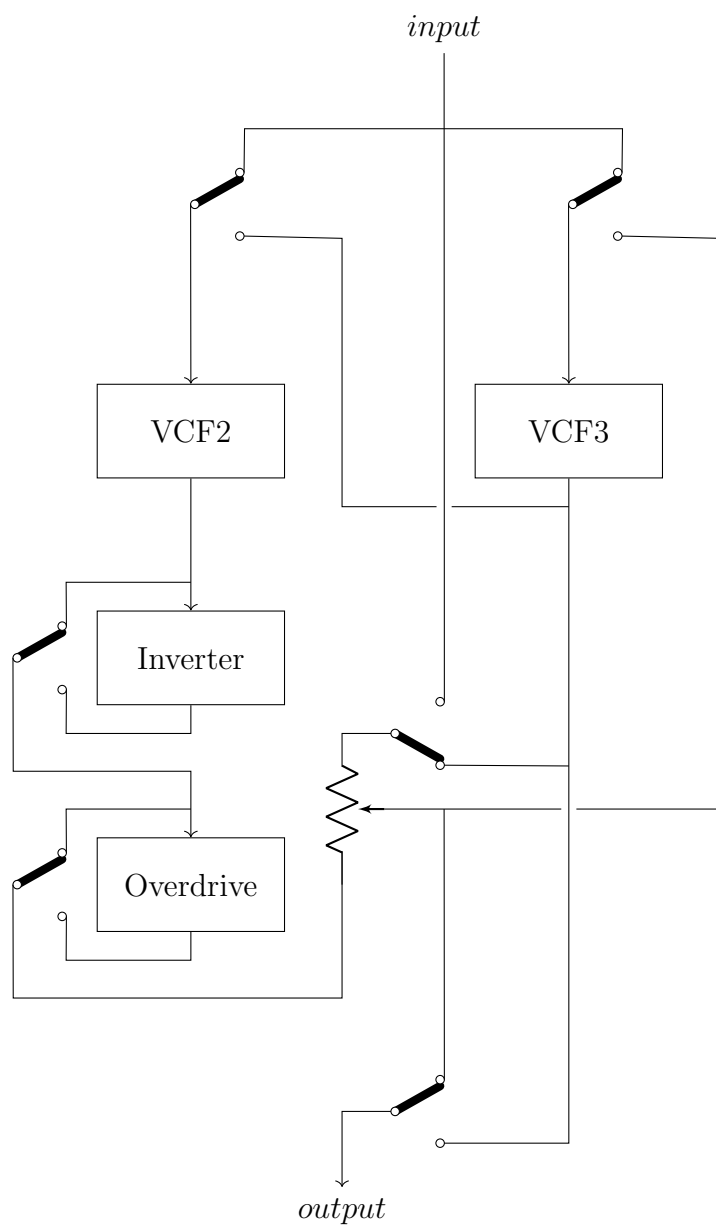
The filter is based on AS/CEM3350, which is a dual 2 pole filter, together with s-load of MUXes that allows for reconfiguration of the setup. All the filters has MUXes that allows them to be switched between LP/BP/HP, the default configuration is BP, if the left MUX is activated it's turned into a LP-filter and the right turns it into a HP.



The VCF2 and VCF3 creates a filter block where the filters can run in parallel, serial or feedback mode.

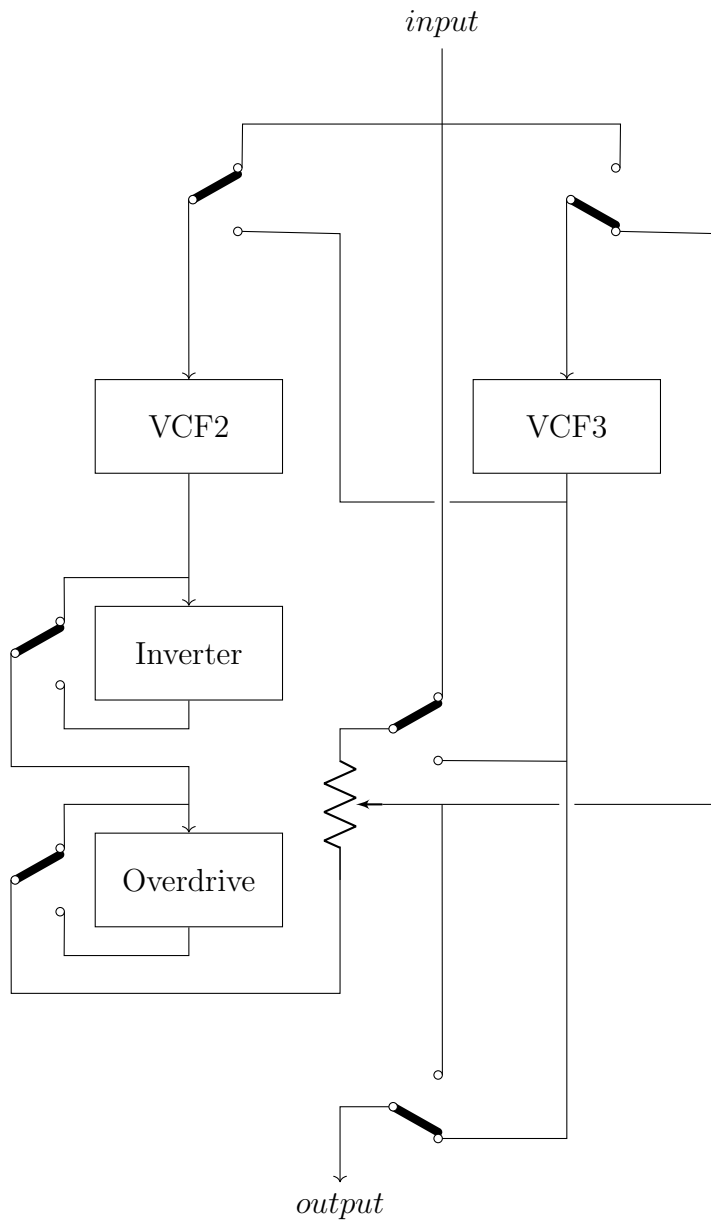
Parallel mode

In this mode both VCF2 and VCF3 are fed the signal from the input and the mixer potentiometer mix between the VCF outputs.



Serial mode

In this mode the input goes to VCF2 and the potentiometer works as a wet/dry mix that feeds the input of VCF3. Output is taken directly from VCF3.



Feedback mode

In this mode the input goes to the potentiometer that mix between input and the output from VCF2, this is then fed into VCF3 which output then goes out from the filterblock and is also fed into VCF2. VCF2 therefore works like a filtered feedback for VCF3.

