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## Autoswell (envelope) info

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### Autoswell (envelope) info (#p3276)

by **ruggine** » Tue Oct 23, 2018 2:15 pm

Hello,

I know I'm asking a lot of questions lately and I really want to thank Digital Larry for always answering me and being very exhaustive every time.

This time should be an easy thing I guess.

I'm working on an autoswell and I ended up using a combination of absolute value, smoother, maxx block, etc. , as I read on this forum.

Everything works fine, but by using the smoother block I'm not able to change parameters like sensitivity, attack and decay. I read that the smoother is mainly a low pass filter.

Can I change it with a low pass filter in order to vary the cut frequency or will I miss something?

Thank you very much!

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### Re: Autoswell (envelope) info (#p3277)

by **Digital Larry** » Tue Oct 23, 2018 8:09 pm

Well let's just see. I haven't really made anything like this but here's how I'd start.

You need a volume control and it will start at "on" with no signal and turn off very quickly when the signal is detected, then come on gradually.

So yeah, start with ABS and the smoother and MAXX, then invert it to send to the volume control. The only issue is that the smoother doesn't have any sort of dynamic frequency control input. Then there's the 1 pole LPF which AFAIR is mostly adjusted for audio frequencies. But you might be able to create the structure in SpinCAD and tweak the constants in the Spin ASM to make it work at lower frequencies.

Anyone else ever done this?

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## **Re: Autoswell (envelope) info (#p3283)**

by **ruggine** » Fri Oct 26, 2018 11:47 am

Thank you very much for your reply. I ended up using smoother block between modulus and maximus and then a simple LP filter after maximum (not making a lot because its minimum cut freq is around 70 hz) but it allows me to change the attack speed a bit. Thank you very much. Now I'm going to try fixing the shimmer reverb!

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