

Let's make Joe Zawinul and Chick Corea proud. No good synth patchbook should exist without a gnarly "Fusion Lead" patch. We'll start with a classic triangle waveform somewhere in the upper ranges, add

harmonics and fundamentals to taste. Filter out some highs, swell-up on the attack and modulate the cutoff frequency (Modwheel and/or velocity) to add expression. Resonance and Portamento values to taste.

Suggested settings: attack past 9 or a slide-in, decay phase well up to the middle, sustain to taste for overall "size", release for a smooth "tail".

Use your MIDI device's Modwheel* or DAW automation channel to modulate the VCF's cutoff converted via the Power / MIDI module. Alternatively use the vel output to "open" the Filter depending on applied velocity.

VCO range switch in the MID or 4th position, depending on where your Lead sound is supposed to "sit" in the mix.

Suggested patching: Start with a triangle, add saw to taste for harmonics, add sub to thicken up the mix by choice. **Tip:** Mix clean, add Noise to taste :)

Set resonance to taste, a bit of squeeelch is almost a pre-requisite :)

Set VCF cutoff modulation depth to taste. Due to **normalization** between the VCA and cutoff modulation inputs on the Expander, a single CV signal will affect both circuits unless bypassed manually.

Set the VCA's modulation depth. Analog saturation will occur beyond certain values.

Suggested patching: Power / MIDI gate output to Envelope Generator trigger/gate input. Envelope output to Expander VCA modulation input.

Use supplied MIDI-to-3.5mm Adapter to convert external MIDI data** to analog Control Voltages.

*MIDI Modulation data is hardwired to CC1 and output at the mod output on the Power / MIDI module.
**Power / MIDI is set to receive MIDI via CH1 by default.

As usual, the VCA modulation input is **normalized** to the cutoff modulation input on the Expander module.
Pro-tip: split up the Envelope's CV at the VCA modulation input using a stackable, patch into cutoff input and add vel output on top of cutoff input jack to "open" the VCF using converted MIDI velocity to add expressivity.

VCF output is patched to VCA input on the Expander.

Set the VCF mode switch to the UP position for classic LPF.

Some glide portamento goes well in a Lead-sound context. Set by ear.

Eyeballing cutoff below MID position is a good initial value. We want to take the "edge" off with the added effect of Envelope modulation swelling up, to **highlight** some notes and add dynamism.

Mix to VCF input.

