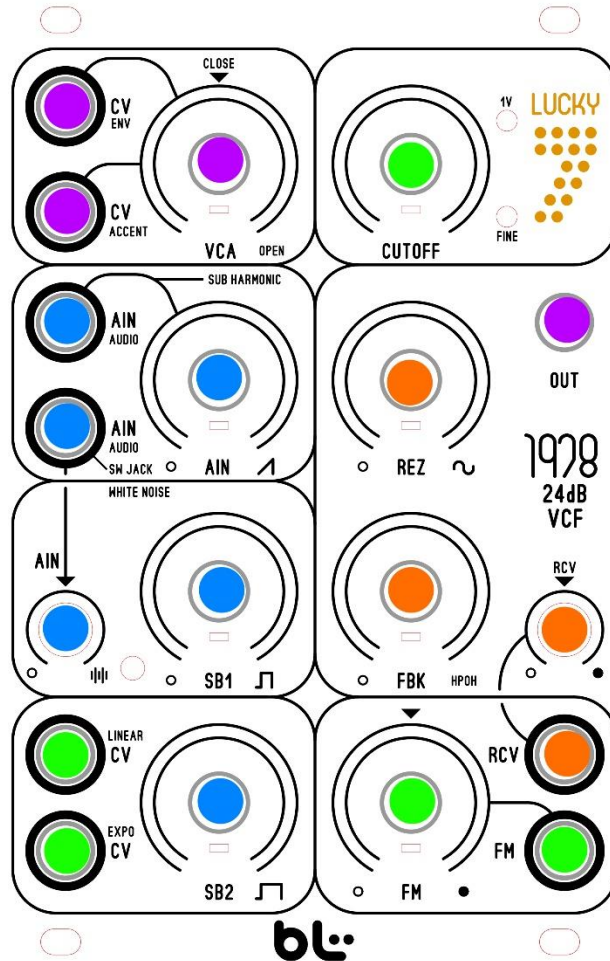


BLM LUCKY 7 24DB ANALOG FILTER



Blue color section. Audio mixer, subharmonic generator, white noise generator, and audio inputs. This is where you mix to your liking all the possible audio. The white noise generator is internally switch jack patched to Audio Input jack 2. The sub harmonic generator is internally patched to input jack AIN 1. This section has gain when fully clockwise. Lower knob settings work best for a classic tone. Otherwise you will get an overdriven tone if you have all the knobs fully clockwise all the time.

Green Section. Core Analog Filter Section. Expo CV in is where you can achieve 1V per Octave control. FM input jack and attenuinverter is for envelope patching. Linear CV is best used when the filter core is self-oscillating. The Rez Knob must be fully clockwise to get the filter to self-oscillate.

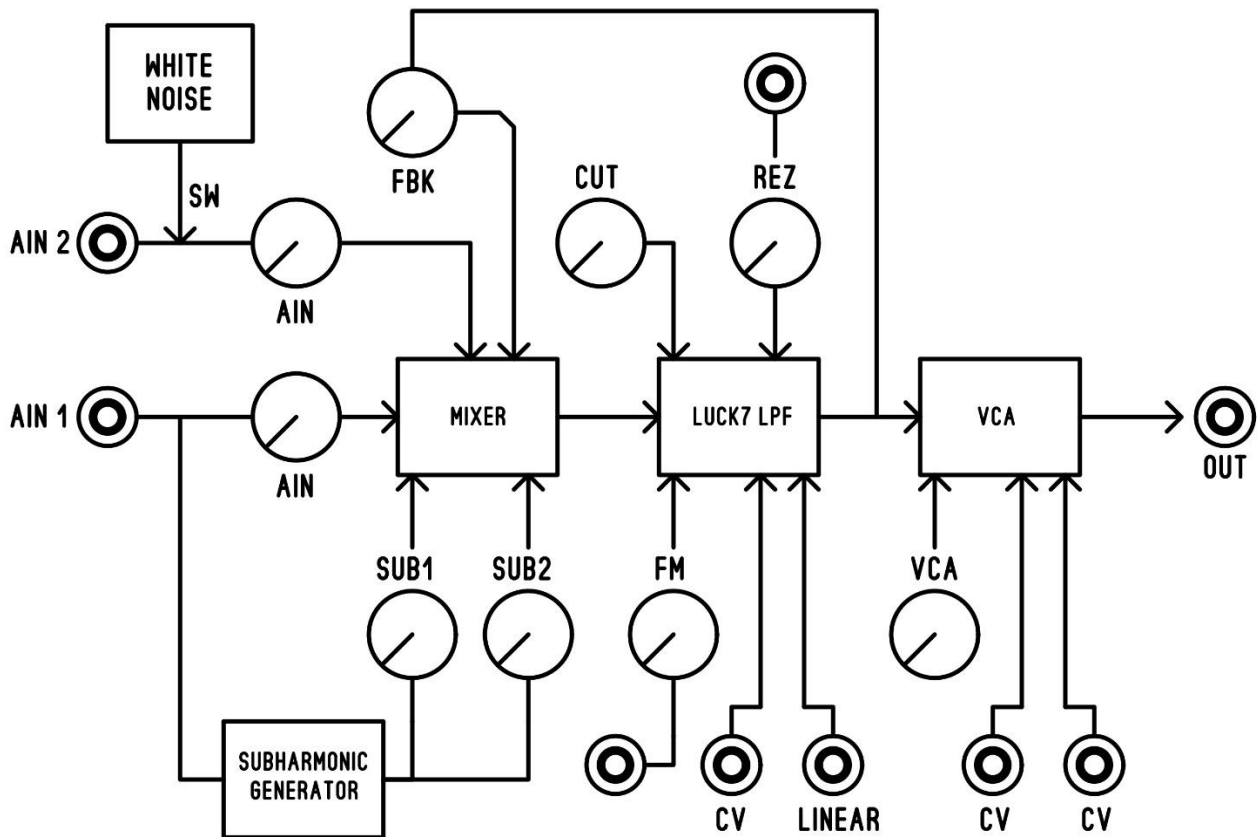
Orange Section. Resonance and Headphone feedback circuit. The Headphone feedback circuit uses the original Vintage SH1 discrete layout, and is internally patched to the input mixer. This simulates a classic patch SH1 keyboard owners would do. Small settings do a lot with the FBK Knob. RCV is Rez CV control with an input jack. The RCV is a bi-polar attenuinverter. The tonal portion of the Rez works in conjunction with how hard the levels are in the mixer section (blue section). Ain Knobs, SB1, and SB2

BLM LUCKY 7 24DB ANALOG FILTER

knobs will mask the squelchy tone of the resonance peak if all fully clockwise. If you are after the classic roland bubbly sound, lower knob settings work best on the mixer section. All of this is normal behavior.

Purple Section. VCA and Filter Output jack. This section is an internal VCA with a VCA offset knob, and 2 possible CV input. The output signal is a bit lower when nothing is patched into the VCA CV jacks, and the VCA knob is fully clockwise, this is normal behavior. Once you patch and envelope generator to the VCA CV input, the filter output will be roughly +5V/-5V.

The front panel dual color led represents an AC signal. It shows you the -5V/+5v portion of the signal. Red color does not indicate clipping.



Calibration

On the back side the blue color flat trimmer adjusts the sine wave self-oscillation level.

BLM LUCKY 7 24DB ANALOG FILTER

On the front panel, the top trimmer adjusts 1V per octave tracking. It is best adjusted during self-oscillation. The bottom Fine trimmer helps you dial in exact frequency during calibration. For example, 50Hz. Think of it like a 'Fine Tune' found on VCO's.

Model: BLM Lucky 7 VCF

Width: 16HP

Current: +69mA -68mA

PCB STACK: 1, SKIFF Compatible.

Core Filter Cell: OTA Based. BSR58 JFET Driver. 150PF 5% Capacitor Filtering.