

WERKSTATT 01: Moogfest 2014 Kit

PRODUCT

The Werkstatt 01: Moogfest 2014 Kit is a patchable and compact one oscillator analog synthesizer. It was originally created for the exclusive “Engineering VIP” workshops at Moogfest 2014. Due to the large number of requests, Moog is offering a “no-soldering-required” version of the Werkstatt 01: Moogfest 2014 Kit. Assembly is extremely simple: any user can quickly build an analog synthesizer based on classic Moog circuits, and if desired, modify it. Werkstatt was created to be an educational tool, but it is also a very powerful, compact analog synthesizer from Moog. As with all of our synths, Werkstatt is USA designed and made product.

OSCILLATOR SECTION

- Single VCO w/ frequency control (8Hz to 16KHz)
- Saw and square waveshapes w/ control for square pulse width
- Envelope or LFO selectable Mod Source that can be assigned to PWM or Pitch w/ Amount control
- Ability to PWM the square wave

FILTER SECTION

- Classic 4-Pole Moog Ladder Filter w/ Resonance control (20Hz-20KHz)
- Select between the Envelope generator and LFO as Mod Source.
- Polarity switch (+/-) and amount knob for control of filter cutoff modulation

LFO SECTION

- Selectable Square or Triangle waveshape w/ rate control (2Hz-600Hz)

VCA/AMP SECTION

- Select between the Envelope Generator or ON (Drone)

ENVELOPES SECTION

- Controls for Attack & Decay time w/ Sustain On/Off switch

KB SECTION

- One octave low-note priority legato keyboard w/ glide control

PATCHBAY

- VCA Input 0V to +5V in VCA EG Mode, +/-2.5V in VCA ON Mode
- VCF Input -5V to +5
- VCO LINEAR FM Input +/-2.5V - NOTE: this is an inverting control input
- VCO EXPONENTIAL FM Input -5V to +5V, 1V/Octave trimmable
- LFO CV Input 5V to +5V – NOTE: Negative CV slows LFO more than the panel
- VCF AUDIO Input Unbuffered/Unmixed AC coupled input to VCF
- 2x KB CV Output 3V/semitone from 1 keyboard - NOTE: Attenuate for 1V/Octave
- 2x TRIG Output 5 msec pulse, 0 to +5 V signal generated from low-note priority

- 2x GATE Output 0 to +5V signal generated from low-note priority
- 2x EG Output 0 to +5V signal, Simple ASD or AD type Envelope Generator
- 2x LFO Output -2.5 to +2.5V Triangle or Square wave, selected via LFO Switch
- 2x VCF Output -2V to +2 V signal for audio or CV uses
- 2x VCO Output 0V to +5V VCO signal, wave selected by VCO Wave Switch

Rear Panel

- AUDIO Output Nominal +/-1.5V Signal
- POWER +12VDC Center Positive w/ 1.2A Wall transformer (included; same as the Minitaur power supply)
- POWER CONSUMPTION 1.8 Watt AVG