

Moog – Drummer From Another Mother

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Moog DFAM (Drummer From Another Mother) Eurorack Cheat Sheet

Eurorack Specs

- **Width:** 60HP
- **Max Depth:** 26mm
- **Power Draw:** +12V (230mA max), -12V (Not used)
- **Ribbon:** 10-pin
- **All signals:** $\pm 5V$ (10Vpp) Eurorack compatible

Quickstart

- **Power On:** No power switch; powered when adapter is connected or installed in rack.
- **Warm-up:** Allow a few minutes after power-on for oscillator/frequency stability.

Controls Overview

Knobs

- **VCO 1 Frequency, VCO 2 Frequency:** Set pitch of both oscillators
- **VCO 1/2 EG Amount:** Bipolar, amount of envelope to VCO pitch (-/ center/+)
- **VCO Decay:** Envelope decay for VCO mod.
- **VCO 1/2 Level:** Mixer volume for each oscillator
- **Noise/Ext Level:** Level for noise generator or external input
- **Filter Cutoff:** Master cutoff frequency for filter
- **Resonance:** Filter resonance; self-oscillation in LP
- **VCF EG Amount:** Bipolar, amount of envelope to cutoff
- **VCF Decay:** Envelope decay for filter
- **Noise/VCF Mod:** Amount of noise (or CV) modulating filter cutoff
- **VCA Decay:** Overall output envelope decay

- **Mixer Volume:** Output gain

- **8x Pitch Knobs:** Step pitches for sequencer

- **8x Velocity Knobs:** Step velocity for sequencer

- **Sequencer Tempo:** Global tempo

Switches/Toggles

- **VCO 1 Wave, VCO 2 Wave:** Triangle / Square
- **Hard Sync:** Off/On (Osc 2 phase resets to Osc 1)
- **Seq Pitch Mod:** [VCO 1&2 / Off / VCO 2]
- **Filter Mode:** [Low Pass / High Pass]
- **VCA EG:** [Fast/Slow] (Envelope attack speed)

Buttons

- **Run/Stop:** Start/stop sequencer
- **Advance:** Manually advance sequencer (step)

- **Trigger:** Trigger selected step (no advance)

Patchbay Reference

All jacks: 3.5mm. Inputs: 0–+5V or ±5V, Outputs: ±5V (unless noted).

(Eurorack ±5V = 10Vpp modular standard)

Inputs

Jack Name	Description	Voltage Range
TRIGGER	Fires ENV (all 3 EGs) @ selected velocity	0–+5V Pulse/Gate (+10V toler)
VCA CV	Add'l CV for amp level (summed w/ EG)	0–+8V
VELOCITY	Step ENV max amp	0–+5V
VCA DECAY	Controls VCA envelope decay	-5V to +5V
EXT AUDIO	Audio in (replaces noise in mixer)	10Vpp
VCF DECAY	Controls VCF envelope decay	-5V to +5V
NOISE LEVEL	CV for noise/external audio level	0–+8V
VCO DECAY	Controls VCO EG decay	-5V to +5V
VCF MOD	CV for filter cutoff (replaces noise)	-5V to +5V
VCO 1 CV	1V/octave control for Oscillator 1	-5V to +5V

Jack Name	Description	Voltage Range
1→2 FM AMT	Mod amount CV (linear FM, VCO1→VCO2)	0→+8V
VCO 2 CV	1V/octave control for Oscillator 2	-5V to +5V
TEMPO	1V/oct (audio-rate possible)	-5V to +5V
RUN/STOP	Gate for sequencer (- off, + on)	0→+5V Gate (+10V tol)
ADV/CLOCK	Clock / advance input (external clock)	0→+5V Clock (+10V tol)

Outputs

Jack Name	Description	Voltage Range
VCA	Main audio out (pre volume knob)	-5V to +5V audio
VCA EG	ENV out for VCA	0→+8V CV (unipolar)
VCF EG	ENV out for Filter	0→+8V CV (unipolar)
VCO EG	ENV out for VCO pitch	0→+8V CV (unipolar)
VCO 1	Raw signal out (wave chosen by switch)	-5V to +5V
VCO 2	Raw signal out (wave chosen by switch)	-5V to +5V

Jack Name	Description	Voltage Range
TRIGGER	Sequencer clock output	0–+5V (1ms pulse)
VELOCITY	Step velocity CV out	0–+5V
PITCH	Step pitch CV out	-5V to +5V

Signal Path (Summary)

1. **VCO 1 & VCO 2**: Select tri/square waveform, tune frequency, hard sync, FM.
2. **Mixer**: Blend VCOs and/or Noise/External In.
3. **VCF**: HP/LP, cutoff, resonance, modulation (EG + Noise/CV).
4. **VCA**: EG-controlled amplitude, velocity and decay variation.
5. **Sequencer**: 8 steps, each with pitch & velocity; analog clock & patchable.

Tips & Tricks

- All EG amount knobs are bipolar (negative at left, neutral at center, positive at right).
- Set pitch modulation with SEQ PITCH MOD toggle.
- Use the patchbay to sequence or modulate ANY parameter via CV.
- Noise/EXT Jack can be replaced with external audio (removes noise).
- Filter self-oscillates in low-pass mode with high resonance; can be used as an additional tone source.
- Perfect for cross-modulation (“FM Toys” patch: VCO2 FM’ing filter cutoff!).
- Both Osc1 and Osc2 pitch can be externally controlled (1V/oct).

- Sequencer can act as CV or trigger source for other gear via patch outputs.
- Designed to immediately fit 60HP Eurorack systems.
- All inputs/outputs Eurorack voltages.

Troubleshooting

- **No Sound?**
 - Check VCO FREQ, EG AMT, Filter cutoff/resonance, patch section for dead-end connections.
- **Levels too low?**
 - EXT IN expects modular level (10Vpp). Amplify external line-level sources.

Useful Links

- [Moog DFAM Official Manual PDF](#)
- [Generated With Eurorack Processor](#)