

# Moog – Drummer From Another Mother

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## Moog DFAM (Drummer From Another Mother) Eurorack Cheat Sheet

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### 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
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### Quickstart

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- **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.
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# Controls Overview

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## 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
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## 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)
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## Buttons

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

- **Trigger:** Trigger selected step (no advance)
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## 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
<b>TRIGGER</b>	Fires ENV (all 3 EGs) @ selected velocity	0–+5V Pulse/Gate (+10V toler)
<b>VCA CV</b>	Add'l CV for amp level (summed w/ EG)	0–+8V
<b>VELOCITY</b>	Step ENV max amp	0–+5V
<b>VCA DECAY</b>	Controls VCA envelope decay	-5V to +5V
<b>EXT AUDIO</b>	Audio in (replaces noise in mixer)	10Vpp
<b>VCF DECAY</b>	Controls VCF envelope decay	-5V to +5V
<b>NOISE LEVEL</b>	CV for noise/external audio level	0–+8V
<b>VCO DECAY</b>	Controls VCO EG decay	-5V to +5V
<b>VCF MOD</b>	CV for filter cutoff (replaces noise)	-5V to +5V
<b>VCO 1 CV</b>	1V/octave control for Oscillator 1	-5V to +5V

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

## Outputs

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

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## 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.
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## 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.
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## Troubleshooting

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- **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.
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## Useful Links

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