Acid Rain — Chainsaw

• [Manual PDF](#)

[Chainsaw Stereo Super-Oscillator Manual (PDF)](#)

Acid Rain Technology Chainsaw (Eurorack Cheat Sheet)

Description

Chainsaw is a 3-voice, 7-oscillator-per-voice digital oscillator focused on "super-saw" and "super-square" sounds, providing wide stereo imaging and extensive polyphonic possibilities.

FRONT PANEL OVERVIEW

Ref.	Control/ Input/Output	Function	Voltage Range
1	Encoder (push/turn)	Root pitch (semitones) / Fine tune (cents) / Reset to C1	N/A
2	note LED	Indicates root pitch mode	N/A
3	alt LED	Indicates fine tune mode	N/A
4	Detune knob	Detunes 7 waves per voice	N/A
5			N/A

Ref.	Control/ Input/Output	Function	Voltage Range
	Wave morph knob	Morphs saw→square for all waves	
6	CV in: Detune	CV control of detune	-5V to +5V
7	CV in: Wave Morph	CV control of wave morph	-5V to +5V
8	CV in: 1V/ Oct Voice 1	1V/Oct pitch for Voice 1	0V (C0)−10V+
9	CV in: Linear FM	Linear FM for all voices	-5V to +5V (waves up to 2kHz)
10	CV in: 1V/ Oct Voice 2	1V/Oct pitch for Voice 2	0V (C0)−10V+
11	Audio Out: L (Mono)	Left output or mono out	N/A
12	CV in: 1V/ Oct Voice 3	1V/Oct pitch for Voice 3	0V (C0)−10V+
13	Audio Out: R	Right output (for stereo)	N/A

QUICK-START CHEAT SHEET

Basic Use

1. **Patch outputs:** Use OUT L (11) for mono, or OUT L (11) + OUT R (13) for full stereo super-saw/super-square sound.

2. **Pitch control:** Use encoder (1) to set the root note (1 semitone/step while "note" (2) LED is ON).
   - **Push encoder** to toggle to fine tune (1 cent/step, "alt" (3) LED ON).
   - **Long press (2 sec)** to reset to C1 (32.7 Hz).
3. **Pitch Inputs:** Patch 1V/Oct CV to Voice 1 (8), 2 (10), and/or 3 (12) for up to 3-voice polyphony (individual pitch per voice).
4. **Detune:** Adjust Detune knob (4) to spread the stacked waves for each voice. Use Detune CV (6) for voltage control (additive, -5V to +5V).
5. **Morph:** Adjust Morph knob (5) to sweep all oscillators from pure super-saw (ccw) to super-square (cw). Use Morph CV (7) for voltage control (additive, -5V to +5V).
6. **FM:** Patch linear frequency modulation CV to FM input (9), responds predictably up to 2kHz (use bipolar -5V to +5V LFOs, envelopes, etc. for FM).

INPUTS SUMMARY

- **V/O 1 (8):** 1V/Oct pitch control, activates Voice 1; precision-tracked.
- **V/O 2 (10):** 1V/Oct pitch control, activates Voice 2.
- **V/O 3 (12):** 1V/Oct pitch control, activates Voice 3.
- **Detune CV (6):** Controls wave detune, -5V to +5V range.
- **Morph CV (7):** Controls waveshape morph, -5V to +5V range.
- **FM (9):** Linear frequency modulation, -5V to +5V (suitable up to 2kHz).

OUTPUTS SUMMARY

- **OUT L (11):** Left/Mono audio output (all 21 voices spread spatially).
- **OUT R (13):** Right stereo output for spatial effect (use with OUT L for full stereo image).

POWER REQUIREMENTS

- **+12V:** 110mA
- **-12V:** 10mA
- **Ribbon Orientation:** Red stripe = -12V
- **Width/Depth:** 4 HP / 35mm
- **Reverse Power Protection:** Yes

REMINDERS

- Use with +12V/-12V regulated Eurorack power supply (2x5 ribbon, red stripe = -12V).
- Outputs are line-level modular audio signals.
- Manual morph and detune controls can be automated with CV (modulation sources: LFOs, envelopes, sequencers, etc.).

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