

# Zlob — Triple Cap Chaos

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- [Manual PDF](#)
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[Triple Cap Chaos - Zlob Modular Manual PDF](#)

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## Triple Cap Chaos (C<sup>3</sup> Chaos) — Cheat Sheet

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### Overview

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A unique 2hp analog Eurorack module based on chaotic attractor circuits. Functions as a chaos-based noise oscillator, audio mangler, and pseudo ring modulator/harmonics generator. Not V/oct; focus is on chaotic, unpredictable audio-rate behavior.

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### Panel Controls & Connections

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#### Knobs:

- **Emanate**
  - **Coarse control** of chaos intensity.
    - CCW = high activity/chaos
    - CW = more stability/oscillation (up to ~250 Hz).
  - **Width / CV ATT**
  - **Fine chaos/oscillation control.**
    - When no CV cable plugged into “CV”: Normal operation.
    - When CV present: Acts as **attenuator** for incoming CV.
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## Jacks:

### Inputs

- **IN**
- **AC-coupled audio input** (also accepts CV).
- Interacts with the internal oscillator for mangling, pseudo ring-mod, harmonics, or bitcrushing.
- **CV**
- Expects **±5V max**.
- Modulates chaos spectrum (affected by Width/CV ATT knob when patched).

### Outputs

- **X**
- **Windy/noisy, sinusoidal-based chaotic audio.**
- ~10Vpp, slight DC offset possible depending on knob settings.
- **Y**
- **Square/aggressive chaotic audio.**
- ~10Vpp.

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## Typical Ranges/Quirks

- **Not 1V/oct tracking** and has a *narrow frequency range*.
  - All knobs fully CW: ~150–200 Hz; Emanate full CCW & Width full CW: ~250 Hz.
  - Extreme input signals can halt oscillation (go silent).
  - Outputs are audio-rate ±5V centered, approx. 10V peak-to-peak.
  - **X output:** May have some DC offset variation depending on settings.
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# Quick Operation Reference

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Control	Function
Emanate	Coarse chaos/osc. spectrum (CCW = more chaos)
Width/CV ATT	Fine chaos/osc. control / CV attenuator if patched

Jack	Type	Use	Voltage Range
IN	Input	Audio/CV	AC-coupled
CV	Input	Chaos Mod CV	±5V max
X	Output	Chaotic audio	~10V pp (centered)
Y	Output	Aggressive audio	~10V pp (centered)

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## Extra Tips

- Use both outputs simultaneously for stereo or dual-mono chaos.
  - Feed audio into "IN" for unique mangling/folding/ring-mod effects.
  - Use CV to modulate chaotic character in real-time.
  - The double-sided panel allows visual customization (graphics vs. minimal).
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