

Free Modular – Boost

- [Manual PDF](#)
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[Boost Free Modular - Manual PDF](#)

Boost Free Modular Cheat Sheet

A compact reference for quickly using and patching the Boost Free Modular.

Overview

Boost is an all-analog module for amplifying and saturating your signal. It combines up to **26dB gain** with musical diode clipping and a sweepable **Tone** control for shaping distortion harmonics. Use it to drive quiet sources to Eurorack levels, add overdrive/distortion, or shape characterful tones.

Controls

Control	Type	Range/Notes
Drive	Knob	Adjusts gain and clipping: - CCW = Unity gain (no boost) - CW = +26 dB gain (distortion)
Tone	Knob	High-frequency content: - Left = Tames harsh harmonics - Center = Neutral - Right = Boosts high-end, harsher sound

Jacks (Inputs/Outputs)

Jack	Type	Voltage/Impedance	Description
Input	Audio In	AC-coupled, $>1M\Omega$	Accepts Eurorack or line-level audio.
Output	Audio Out	Up to $\sim 13Vpp$ (neutral tone), up to rail-to-rail at max high tone	Outputs boosted/clipped signal.

No CV (control voltage) or gate inputs/outputs.

Automate distortion amount by placing a VCA before Boost.

Operational Tips

- **Distortion Amount:** Reduce signal level before Boost (e.g., with VCA) to decrease drive/distortion.
 - **Signal Leveling:** Attenuate output after Boost for "distortion only" without loudness increase.
 - **Tone Shaping:** Post-clipping EQ with the Tone control to emphasize or cut high-frequency harmonics.
 - **Source Use:** Amplifies mics, line signals, or adds drive to modular sources.
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Frequency Response

- **Drive at Max:** Output clipped at $\sim 13Vpp$ (neutral tone). Tone boost can exceed this, causing further harsh distortion.
 - **Tone CCW:** Warmer, reduced highs.
 - **Tone CW:** Brighter, increased highs and potential to clip harder.
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Reference

Inputs:

- Mono audio (AC-coupled, $>1M\Omega$). Handles microphone/line/Eurorack levels.

Outputs:

- Mono audio. Max $\sim 13Vpp$ (with neutral tone, can go up to power rails with boosted highs).

Knobs:

- Drive (Gain/Distortion)
 - Tone (HF shaping, pre/post clipping)
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