

ECHELON AUDIO

KNOCK

808 Harmonic-Knock Saturator — User Manual



The KNOCK interface. Hover any knob, button or tab in the plugin for a quick tip; this manual covers every control in full.

KNOCK is an 808 harmonic-knock saturator. Parallel triode (even-harmonic warmth) and pentode (odd-harmonic edge) stages drive the sound while a Sub Lock crossover keeps the fundamental clean and tight. Add a tuned click, a pitch-locked sub-synth, mono-bass control, oversampling and a safety ceiling for a low end that translates everywhere.

Global & Header Controls

Control	What it does
A / B	Hold two complete settings and click to flip between them for comparison.
Preset ‹ ›	Browse presets; the name in the middle is the current preset.
Auto Gain	Automatically matches output loudness to the input so you judge tone, not level.
Delta	Solo only the harmonics and processing KNOCK is adding.
Bypass	Bypass the whole plugin to compare against the dry signal.
About (?)	Open the About panel with version and credits.
Tabs (808 / SUB / BASS)	Switch the lower panel between saturation, sub-synth/mono, and click/bass controls.
Oversampling	Internal oversampling factor (2× – 16×). Higher reduces aliasing on heavy drive at the cost of CPU.
Saturation Curve	Live display of the current transfer curve so you can see how hard the signal is being shaped.

Controls

Drive & Knock

The core saturation engine. KNOCK runs parallel triode and pentode stages, then dials in the punchy midrange and a clean, locked sub.

Control	Range	What it does
Input	-12 ... +12 dB	Drive into the saturator. Push harder for more harmonics; trim Output afterwards to match level (or use Auto Gain).
Triode	0 ... 100%	Parallel triode stage — adds even-harmonic warmth and weight, the round low-end character.
Pentode	0 ... 100%	Parallel pentode stage — adds odd-harmonic edge and aggression, the bite that cuts through.
Knock	0 ... 100%	The signature control — emphasises the punchy attack and midrange of the 808 so it stays audible on small speakers and phones.
Sub Lock	40 ... 160 Hz	Crossover below which the clean fundamental is kept out of the saturation, so the sub stays tight and undistorted while the harmonics build on top.

Control	Range	What it does
Sub	0 ... 9 dB	Boosts the locked clean sub for extra weight underneath the saturation.

808 — Saturation

Shapes the voicing and tone of the harmonics.

Control	Range	What it does
Character	Smooth / Warm / Aggressive	Overall saturation voicing — from gentle and rounded to hard and biting.
Knee	Soft / Medium / Hard	How gradually the saturation curve bends in. Soft eases into clipping; Hard snaps for a more aggressive break-up.
Focus	-100 ... +100%	Tilts the saturated tone darker (–) or brighter (+) without affecting the clean locked sub.
Air	0 ... 9 dB	High-shelf exciter for sheen and presence on top of the sound.
Density	0 ... 100%	Thickens and compresses the saturation for a denser, more constant, glued texture.

SUB

Reinforce or rebuild the low fundamental (SUB tab).

Control	Range	What it does
Sub Synth	0 ... 100%	Pitch-locked sub-synth — regenerates a clean sine at the tracked fundamental to reinforce or replace a weak 808 sub.
Mono	Off ... 300 Hz	Collapses everything below this frequency to mono for a centred, translation-safe low end. Off at minimum.

BASS

Add a defined point of impact (BASS tab).

Control	Range	What it does
Click	0 ... 100%	Adds a transient click/attack layer so the 808 has a clear point of impact.
Tune	200 ... 4000 Hz	Tunes the pitch/frequency of the click attack.
Decay	5 ... 200 ms	How fast the click fades — short for a tick, long for a pluck.

Control	Range	What it does
Input	-12 ... +12 dB	Input trim (shared with Drive & Knock).

Output

Final level and safety stage.

Control	Range	What it does
Mix	0 ... 100%	Dry/wet parallel blend of the processed signal against the original — ideal for parallel saturation.
Ceiling	-12 ... 0 dB	Output ceiling / safety clip that catches peaks after saturation.
Output	-12 ... +12 dB	Final output trim to match levels against bypass.

Echelon Audio · KNOCK · double-click any knob to reset it to default.