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DC-9 Overdrive
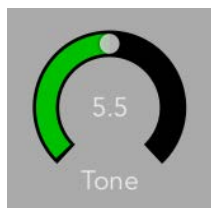
1.0.0 User Manual

Quick Start

DC-9 Overdrive is an Audio Unit Extension that works as a plug-in inside host apps. To start using DC-9, open up your favorite host that supports Audio Units and add it as an effect.
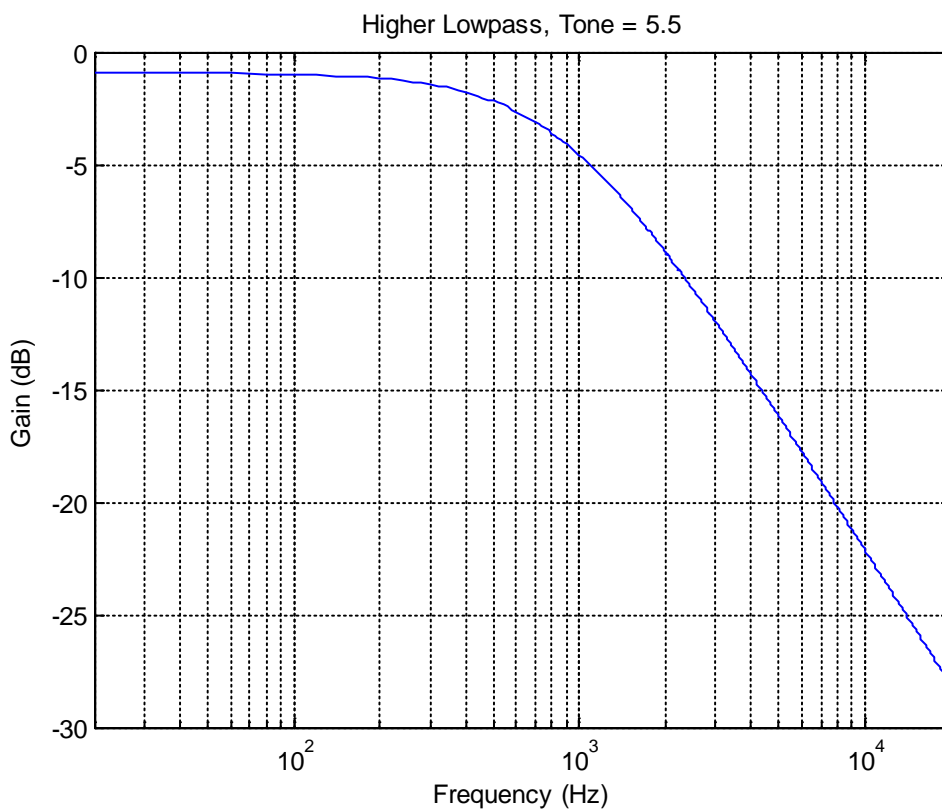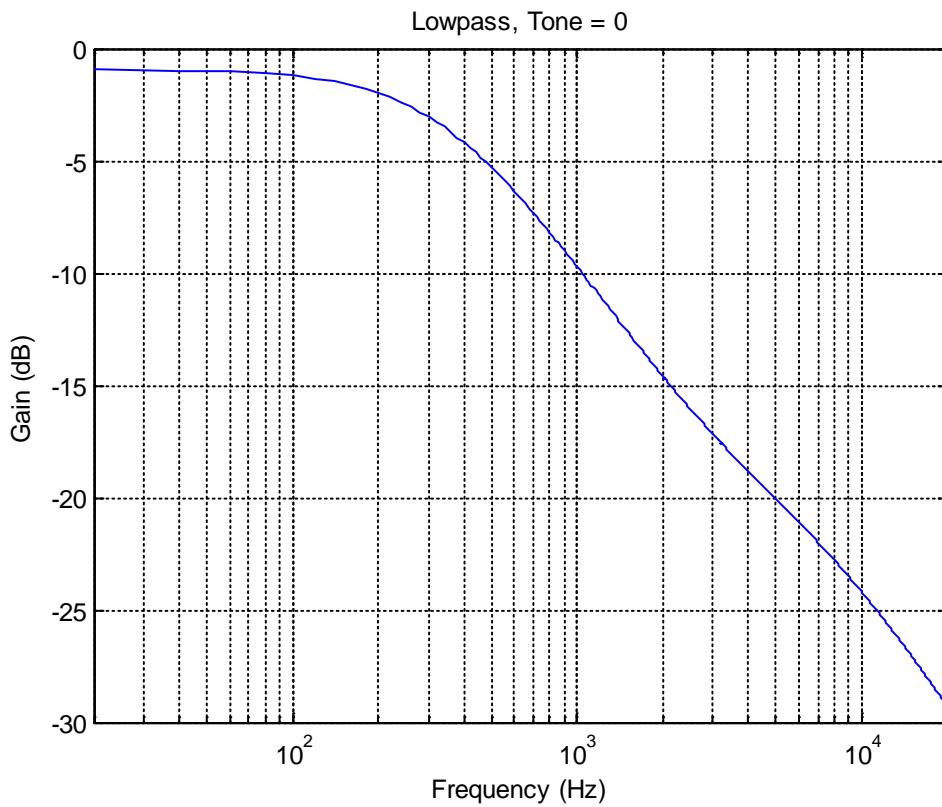
Overview

DC-9 Overdrive is a circuit modeled overdrive that emulates the famous Ibanez® TS9 Tube Screamer. The DSP algorithms in DC-9 take into account the entire schematic, using the latest modeling techniques. This gives you an authentic analog sound that matches the character of the physical circuit.
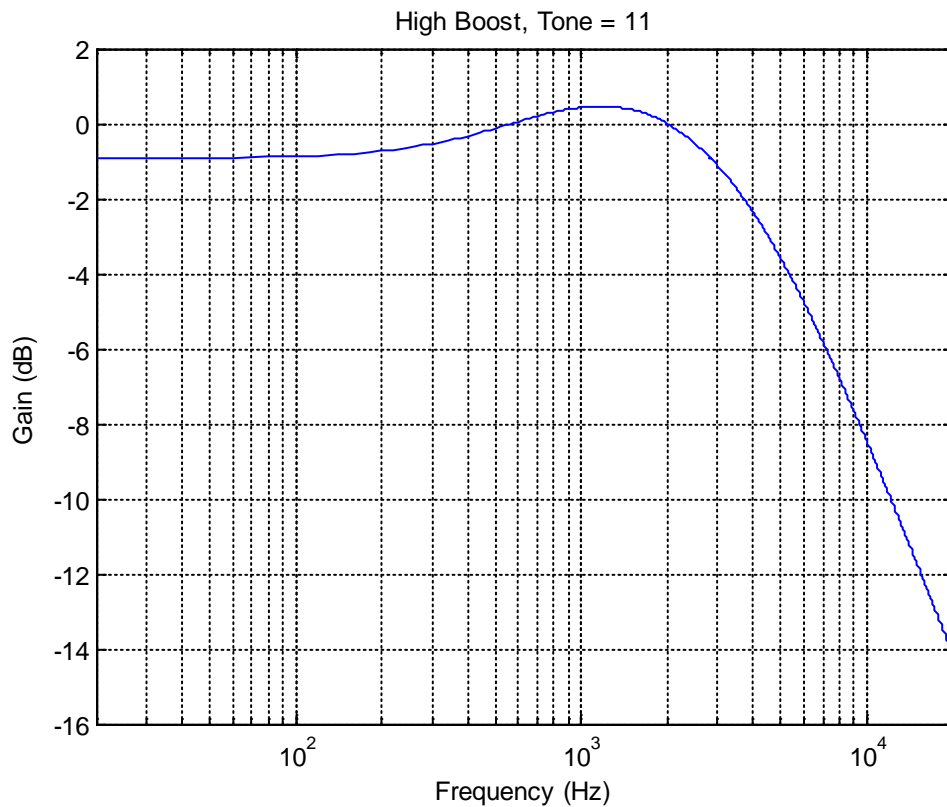
DC-9 gets its name from the Diode Clipper circuit used to create the distortion. The accurate modeling of this part of the schematic gives DC-9 an edge over the common distortion plug-in. The effect was carefully tuned using A/B comparisons to the original stop box.
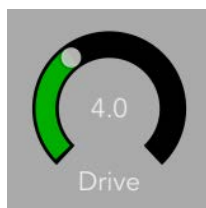
Tone

The Tone knob adjusts a low pass filter that sweeps from a low to high frequency. When Tone is at high settings, the filter boosts high frequencies. It's easiest to understand what happens by looking at magnitude plots at different Tone settings.
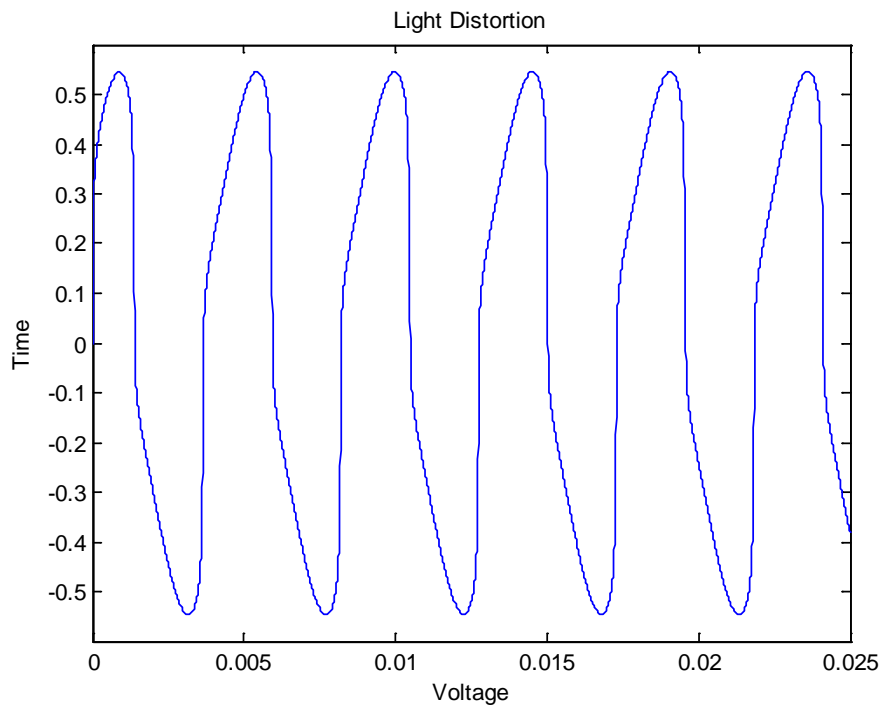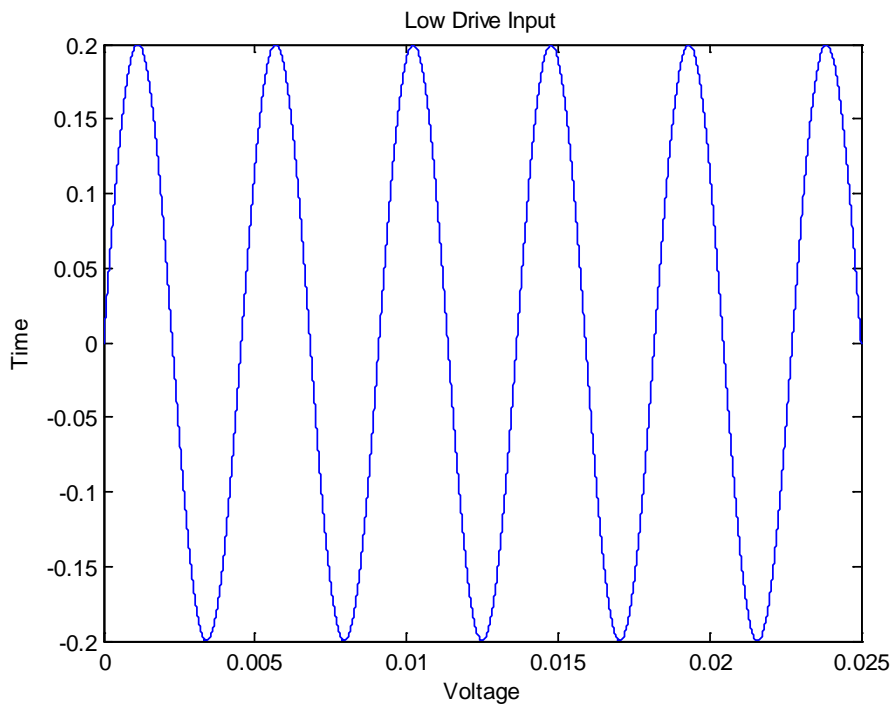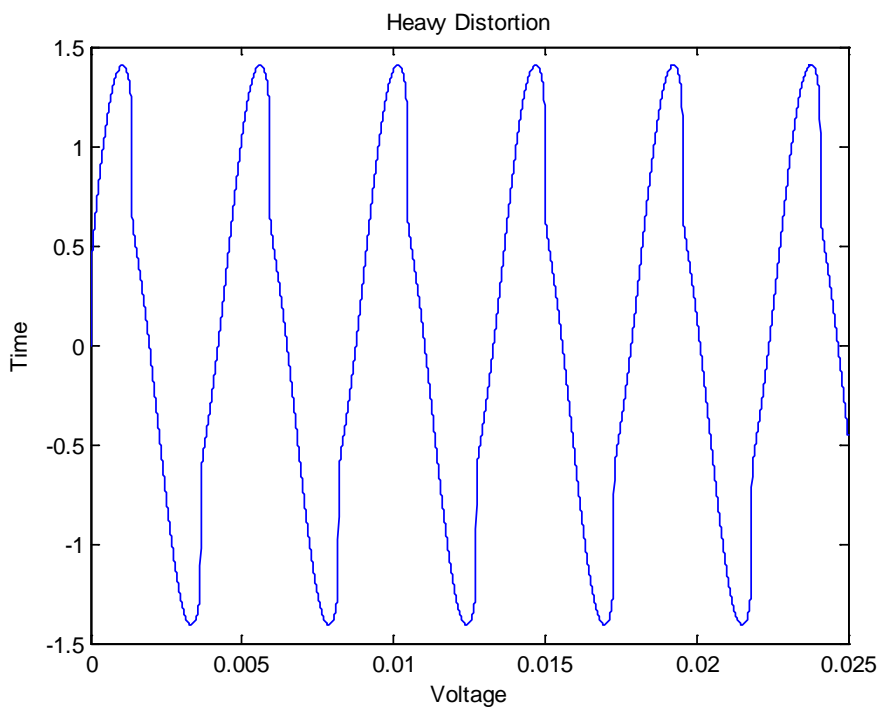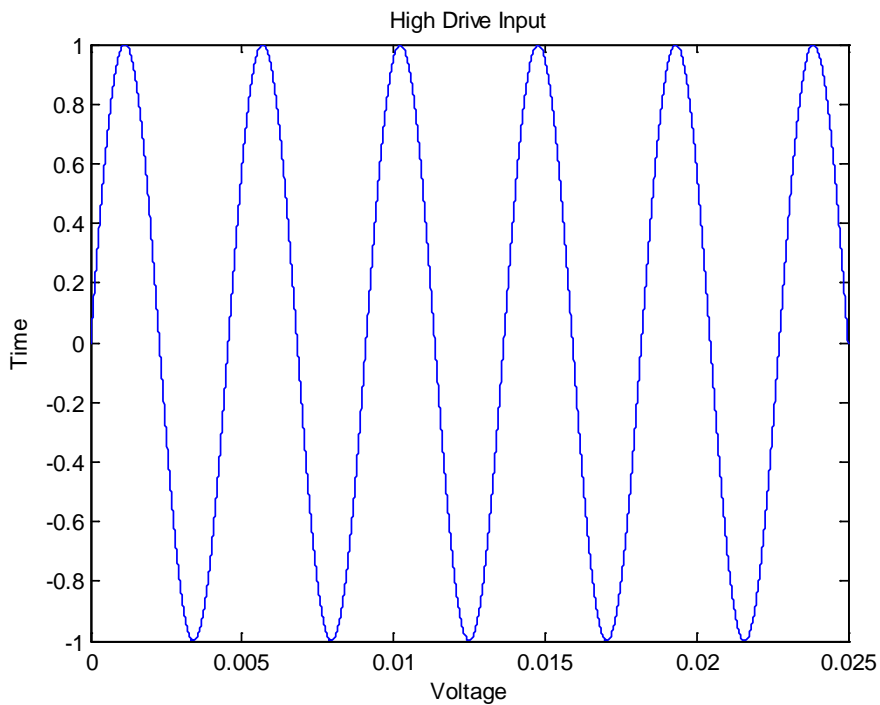
Lowpass, Tone = 0

Higher Lowpass, Tone = 5.5

High Boost, Tone = 11

Drive

The Drive knob applies gain to a diode clipper circuit which is mixed with the input. As more gain is applied the signal is distorted more. Note that the distortion is not a hard clip. The figures show the output of distortion stage with a sine wave input.

Low Drive Input

Light Distortion

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High Drive Input

Heavy Distortion

Mix

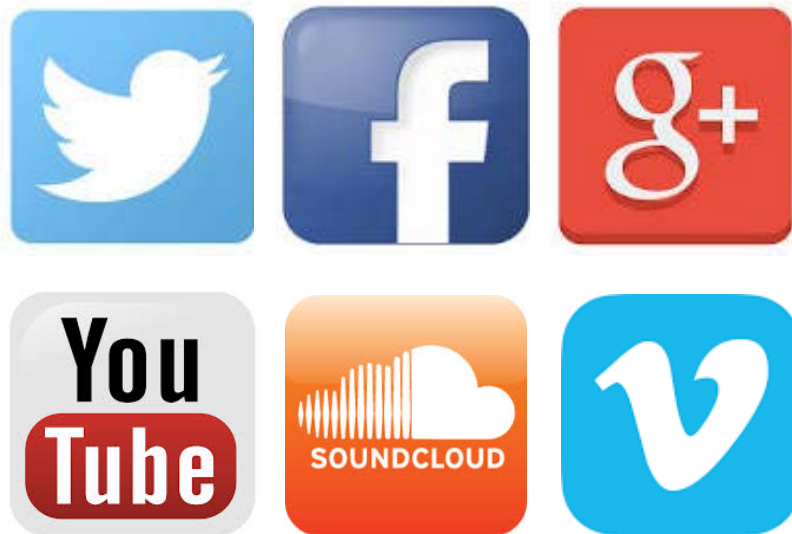The Mix knob adjusts how much of the wet signal is present in the output.

Level

The Level knob adjusts the final output gain. It is like a typical volume control, except instead of only going up to 10, it goes one louder.

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