Tiptop Audio — SD909

- [Manual PDF](#)

[SD909 Manual PDF](#)

Creative Sound Design with the Tiptop Audio SD909 Eurorack Module

The Tiptop Audio SD909 is designed to authentically reproduce the snare sound of the legendary Roland TR-909, but as a modular instrument, it invites much deeper creative exploration. Here's how you can push it into wild territory for distorted drums, aggressive basslines, and eerie pads.

Core Features for Modulation

- **CV Inputs:** The SD909 offers CV control over **Tune** (VCO pitch) and **Noise** (noise clock frequency), as well as external Accent.
- **Manual Controls:** TONE, TUNE, SNAPPY, NOISE, LEVEL, ACCENT
- **Audio Outputs:** SD OUT (full voice), NOISE OUT (raw, voltage-controlled noise)
- **Manual Trigger**: Also CV/gate triggerable
- **Accent Input:** Gate/trigger or CV for dynamic response

Techniques

1. Distorted Percussive Sounds

- **Overdrive Internal Mix:**

    - Crank the **NOISE** and **SNAPPY** controls past the "909" region for an extra-aggressive blend of VCOs and noise.
    - Drive a hot CV sequence into **ACCENT IN**—use an envelope or random CV for dynamic amplitude distortion.
    - Patch the **SD OUT** through a wavefolder, distortion, or overdrive module after the SD909 for extra grit.

- **Noise Clock Modulation (Metallic Snares & Distortion):**

    - Modulate the **NOISE** CV with an LFO or random stepped CV. At low frequencies the snare becomes metallic or glitchy, and clocking noise becomes part of the sound— perfect for industrial distortion.

- **Brutal Amplitude Dynamics:**

    - Use a fast, high-voltage gate for TRIGGER and an independent sharp envelope for **ACCENT IN**: this allows "punchy" transients and deep timbral change.

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2. Dubstep / Drum & Bass-Style Basslines

- **Tune as Bass Oscillator:**

    - Use the **TUNE** knob and send sequenced 1V/oct CV to **VC-TUNE** to "play" the snare body like a bass oscillator.
    - Turn down **NOISE** and **SNAPPY** for a clean VCO body, or keep some noise for a reedy edge.

- **Waveform Shaping with Noise:**

  - Modulate **NOISE** and **SNAPPY** with a slow LFO or envelope to add evolving texture to the bass note.
  - Take the **NOISE OUT**, run it through a VCF or waveshaper, and mix back with **SD OUT** for layered, complex bass.

- **Extreme FM:**

  - Self-patch: Take **NOISE OUT** and use as CV into **VC-TUNE** or **VC-NOISE** (beware voltage scaling). This creates feedback FM effects and wild bass growls.

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3. Haunting Atmospheric Pads

- **Noise Source as Pad Base:**

  - Patch **NOISE OUT** to a VCA/Envelope, then through heavy reverb or delay modules for lush atmospheric noise beds.
  - Use an LFO or sequencer to modulate the **NOISE** frequency for drifting, morphing character.

- **Drifting Harmonics:**

  - Send slow LFOs or random stepping CV to **TUNE** and **NOISE** CV inputs simultaneously, diffusing the percussive snare into evolving textures.
  - Set **TONE** to lengthen the decay (as much as possible).

- **Drone Techniques:**

  - Sustain trigger with looping gates; increase **SNAPPY** to blend more noise for shimmer.
  - Parallel process **SD OUT** and **NOISE OUT** separately (filters, resonators, reverbs) and recombine for deep pads.

Pro Tips

- **Patching External Signal to ACCENT IN:** Use audio-rate or chaotic CV for AM-like effects and brutal timbral shifts.
- **Layering:** Stack multiple gates/triggers, modulate all CV inputs—layer SD909 with other drum modules for unpredictability.
- **Noise Clock Artifacts:** Intentionally clock the noise generator down to metallic/bitcrushed territory—especially with the snare, this is an amazing "broken circuit" flavor.

Additional Resources

- Manual: SD909 Manual PDF
- Official Page: Tiptop Audio SD909

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