

Tiptop Audio – SD909

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Tiptop Audio SD909: using it for melodic components

The SD909 is fundamentally a **TR-909 snare voice**, but the manual makes clear it contains several parts you can repurpose musically:

- **pitched internal VCOs** for the snare body
- **voltage-controllable tune**
- **voltage-controllable binary noise source**
- **separate noise output**
- **accent input** that can be driven by gates or CV for dynamics

That means it is not just a drum hit module – it can become a source for **pitched lines, tuned percussion melodies, noisy basslines, metallic riffs, and articulated sequenced parts.**

What in the module is useful melodically

From the manual, the most important features for melodic use are:

- **TUNE knob + VC-TUNE input**
- controls the pitch of the internal snare oscillators
- lets you sequence pitch externally
- **NOISE knob + VC-NOISE input**
- changes the clocking frequency of the TR-909 noise generator
- at lower settings it becomes more metallic and reveals clock artifacts

- this can create pitched-adjacent or tonal/noisy textures
- **NOISE OUT**
- gives you the raw noise source separately
- useful as an oscillator-like source for filtering, pinging, or shaping into melodic material
- **ACCENT IN**
- accepts gate/trigger or CV
- lets you dynamically shape each note
- accent also changes the balance between the noise and the “kick” body of the snare, which is very musical
- **GATE IN / Trigger button**
- for rhythmic note events
- **LEVEL**
- useful for balancing with other voices in a patch

Important sonic behavior from the manual

A few manual notes matter a lot if you want melody rather than just drum hits:

1. **Tune only affects the internal VCOs**
2. so your “pitched” material mainly comes from the snare body, not the noise burst.
3. **Tone and Snappy affect the noise section**
4. **Tone** = noise length
5. **Snappy** = noise gain
6. for more obvious pitch, reduce the dominance of noise and let the VCO body speak clearly.
7. **Accent is part of the sound design**
8. on this snare, accent does not just make things louder; it also affects the body/noise balance.
9. that means accent sequencing can create expressive melodic phrasing.

10. **Lowering noise frequency gets metallic**

11. the manual explicitly says clocking noise will appear and that this is normal.

12. this is excellent for tuned-industrial or electro melodic parts.

Best ways to use SD909 melodically

1. Tuned percussion line

This is the most direct melodic use.

Patch idea

- Sequencer pitch CV → **VC-TUNE**
- Trigger sequencer → **GATE IN**
- SD OUT → VCA / mixer
- Optional accent trigger/CV → **ACCENT IN**

Settings

- **Snappy**: low to medium
- **Noise**: around or below the marked 909 region
- **Tone**: shorter to medium
- **Tune**: set to a comfortable central pitch
- **Accent**: medium

Result

You get a line of **pitched snare-body hits** that behaves like: - tom melody - synth-percussion sequence - electro bass plucks - tuned clicky lead

Musical use

- Program scales by sending stepped CV to VC-TUNE
- Keep triggers short and regular for x0x-style tonal percussion
- Use accent on selected steps for groove and phrase emphasis

Because this is a drum circuit, expect the pitch to be **characterful rather than precision-1V/oct melodic**. It works best for: - modal riffs - percussive bass motifs - atonal or semi-tonal sequences - techno/electro hooks

2. Snare-bass voice

The internal oscillators can be pushed toward **low, punchy body tones**.

Patch idea

- Pitch CV → **VC-TUNE**
- Gate pattern → **GATE IN**
- Accent sequence → **ACCENT IN**
- SD OUT → lowpass filter → VCA → mixer

Settings

- **Tune**: lower range
- **Snappy**: low
- **Noise**: lower than “classic snare” balance
- **Tone**: short
- **Accent**: adjusted for punch

Result

This turns the SD909 into a kind of: - dirty analog bass drum synth - short bass stab - electro sub-percussion line

Because the snare body contains pitched oscillators, reducing the noisy part lets those oscillators behave more like a crude synth voice.

Good genres

- electro
 - industrial
 - minimal techno
 - EBM
 - broken beat
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3. Metallic pseudo-melody using VC-NOISE

The manual says lowering the noise frequency makes the sound more metallic and reveals the clock. That is a gift for experimental melody.

Patch idea

- Trigger sequence → **GATE IN**
- Slow or stepped CV → **VC-NOISE**
- Another CV row → **VC-TUNE**
- Accent sequence → **ACCENT IN**
- SD OUT → bandpass filter or resonant lowpass

Settings

- **Noise**: lower than normal
- **Snappy**: medium to high
- **Tone**: medium
- **Tune**: moderate
- **Accent**: medium-high

Result

You get: - metallic tuned hits - robotic bell-ish phrases - crunchy digital-sounding riffs - industrial “snare synth” melodies

This works especially well if: - VC-TUNE moves in small intervals - VC-NOISE moves more slowly - accents define phrase boundaries

Think of VC-NOISE as a **timbre melody lane** alongside pitch melody.

4. Raw NOISE OUT as a melodic source

The manual notes that the **NOISE OUT** is the pure, unfiltered TR-909 binary noise source. On its own, that is not a conventional oscillator, but in modular it becomes extremely useful.

A. Filtered-noise melody

Patch

- **NOISE OUT** → resonant filter audio input
- Envelope → filter cutoff and/or VCA
- Trigger sequence → envelope generator
- CV → filter cutoff

Result

If your filter resonates strongly, you can “tune” the filtered noise into: - whistling notes - breathy leads - tuned percussion - hi-tech hats that imply pitch

This is especially effective with: - bandpass filters - high resonance lowpass filters - LPGs for plucky response

B. Noise as source for sample & hold / random melody

Patch

- **NOISE OUT** → sample & hold input
- Clock → sample & hold trigger
- S&H output → oscillator pitch / VC-TUNE / filter cutoff

Result

The SD909 becomes a **random CV source** for melodic generation.

C. Noise into waveshaper/distortion/filter bank

Patch

- **NOISE OUT** → waveshaper/distortion/filter bank
- sequenced VC over the processor
- envelope/VCA after it

Result

You can create: - vowel-like phrases - tuned industrial drones - noisy leads

5. Accent as melodic articulation

The accent system is unusually useful. The manual explains:

- without a cable in ACCENT IN, gate is normalized to accent
- with a cable patched, accent becomes independently controllable
- higher accent settings increase the difference between accented and unaccented hits
- accent can be controlled with CV, not just gates

This means accent can function like **velocity** in a melodic phrase.

Musical uses

- stronger accents on downbeats
- CV accent contours for crescendos
- alternating soft/hard notes for call-and-response
- phrase shaping where accented notes also brighten or rebalance the noise/body tone

Because accent affects timbre as well as level, it can make a 1-note pattern sound like a melodic phrase even before pitch changes.

Practical melodic patch recipes

Patch 1: Electro tuned snare riff

Goal: a 4–8 step percussive melody

- Sequencer gate → **GATE IN**
- Sequencer pitch CV → **VC-TUNE**
- Accent track → **ACCENT IN**
- SD OUT → mixer

Knobs: - Tune: noon-ish - Snappy: 9–10 o'clock - Noise: near or slightly below 909 mark - Tone: short-medium - Accent: around 909 mark

Why it works: Less noise gives the tuned body more focus. Accent adds groove and timbral changes.

Patch 2: Industrial bell sequence

Goal: metallic tonal sequence

- Trigger pattern → **GATE IN**
- Stepped CV → **VC-NOISE**
- Quantized CV or small modulation → **VC-TUNE**
- SD OUT → resonant bandpass filter → delay

Knobs: - Noise: lower - Snappy: medium-high - Tone: medium - Tune: medium-high - Accent: medium

Why it works: The lowered noise clock introduces metallic texture while tune gives body. Delay emphasizes the pseudo-pitched quality.

Patch 3: Bassline from the snare body

Goal: punchy bass/percussion line

- Sequencer CV → **VC-TUNE**
- Gate sequence → **GATE IN**
- SD OUT → lowpass filter → VCA
- Envelope from same gate → VCA/filter
- Accent pattern → **ACCENT IN**

Knobs: - Snappy: low - Noise: low - Tone: short - Tune: low - Accent: medium-high

Why it works: You are minimizing the snare sizzle and using the body oscillator as a bass pluck.

Patch 4: Noise melody generator

Goal: create melodic material elsewhere in the system using SD909

- **NOISE OUT** → sample & hold input
- Clock divider / rhythm trigger → sample & hold trigger
- S&H output → quantizer
- Quantizer output → another oscillator pitch
- Same rhythm or related rhythm → SD909 GATE IN

Why it works: The SD909 contributes both percussion and a noise-derived melodic control source.

Patch 5: Dual-layer melodic percussion

Goal: one module, two related musical lines

- SD OUT → main drum/percussion mix
- NOISE OUT → filter + VCA → FX return or second channel
- Shared triggers
- One sequencer row → **VC-TUNE**

- Another sequencer row → filter cutoff for NOISE OUT path

Why it works: The snare body and raw noise become two coordinated voices: - one for attack/rhythm - one for pitched/noisy melodic color

How to make the SD909 feel more melodic

Reduce noise dominance

The manual repeatedly emphasizes balancing noise and oscillators. For melody: - turn **Snappy** down - keep **Noise** under control - use **Tone** shorter

This exposes the VCO body.

Use external filtering

A drum voice often becomes much more melodic through: - lowpass filtering for bass/plucks - bandpass filtering for tuned percussion - resonant filtering for pitch emphasis

Sequence accent separately

Independent accent makes phrases breathe. This is one of the strongest “musical” features in the module.

Treat VC-NOISE as timbre pitch

It may not track musically like an oscillator, but it absolutely creates a second expressive dimension analogous to melodic movement.

Use quantizers carefully

VC-TUNE is not described as precise tracking, so: - use small pitch ranges - try 3–5 note motifs - embrace imperfect analog tuning - think “pitched percussion” rather than keyboard synth

Best companion modules for melodic use

The manual itself mentions shaping the NOISE OUT with other modules. In a Eurorack context, SD909 pairs well with:

- **quantizer**
 - to make VC-TUNE sequences more scale-like
 - **sequencer with separate trigger/accent lanes**
 - for groove and articulation
 - **filter**
 - crucial for turning noise or snare body into more focused tones
 - **VCA + envelope**
 - especially for NOISE OUT patches
 - **delay/reverb**
 - helps metallic and tuned-percussion patches bloom
 - **wavefolder/distortion**
 - for aggressive industrial melodic lines
 - **sample & hold / random**
 - to derive melodic CV from NOISE OUT
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Realistic expectations

The SD909 is **not a standard precision voice oscillator**. It is better thought of as:

- a **tunable analog percussion voice**

- a source of **pitched drum transients**
- a **metallic/noisy timbre oscillator**
- a **raw binary noise source** for synthesis duties

So the strongest melodic applications are:

- tuned percussion
- electro bass stabs
- metallic riffs
- noisy lead textures
- generative melody support via NOISE OUT

If you try to use it like a clean VCO playing exact equal-tempered lines, it will likely be frustrating. If you use it like a **characterful analog voice with pitchable attack and expressive accent**, it becomes very musical.

Bottom line

The SD909 can contribute melodic material in three main ways:

1. **As a pitch-sequenced snare-body percussion voice via VC-TUNE**
2. **As a metallic timbre-melody source via VC-NOISE**
3. **As a raw noise source via NOISE OUT for filtered or generative melodic patches**

Its real strength is in **percussive melody**: lines that sit between drums and synths. In electro, techno, industrial, IDM, and experimental patches, that can be more inspiring than a conventional oscillator.

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