

# Tiptop Audio – CYMBL909

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## Tiptop Audio CYMBL909 Cheat Sheet

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The **CYMBL909** is a dual-voice Eurorack module that clones the iconic TR-909 crash and ride cymbals with extra features for modular use. Each side (Crash and Ride) is controlled independently. Voltage Controlled Tuning and individual Accent inputs allow for highly expressive drum programming.

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### Panel Overview

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#### Controls (Per Voice: Crash & Ride)

- **LEVEL:** Sets output level of cymbal voice.
  - **TUNE:** Manual frequency tuning.
  - **ACCENT:** Adjusts intensity/loudness of the gate trigger; scalable via external accent input or manual setting.
  - **VC-TUNE:** Voltage controlled tuning input (responds to CV).
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# Panel Connections

## Inputs

Jack	Function	Voltage Range	Notes
CR GATE	Crash Voice Trigger Input	5V Gate/Trig	Receives gates or triggers to play Crash
RD GATE	Ride Voice Trigger Input	5V Gate/Trig	Receives gates or triggers to play Ride
ACCENT (CR)	Crash Accent Input (CV/gate)	0-5V suggested	CV or gate/trigger. Sets accented level, scales gain
ACCENT (RD)	Ride Accent Input (CV/gate)	0-5V suggested	CV or gate/trigger. Sets accented level, scales gain
VC-TUNE (CR)	Crash Frequency CV Input	-5V to +5V	For modulating pitch; external LFO/CV recommended
VC-TUNE (RD)	Ride Frequency CV Input	-5V to +5V	For modulating pitch; external LFO/CV recommended

## Outputs

Jack	Function	Voltage Range	Notes
CR OUT	Crash Cymbal Audio Output	Typical modular	Audio output level, patch to mixer or VCA

Jack	Function	Voltage Range	Notes
RD OUT	Ride Cymbal Audio Output	Typical modular	Audio output level, patch to mixer or VCA

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## Quick Start

1. **Connect GATES:** Patch sequencer outputs to CR GATE and RD GATE.
  2. **Patch Outputs:** CR OUT and RD OUT to mixer/sound system.
  3. **Set Initial Controls:**
    - ACCENT: Max
    - LEVEL: 12 o'clock
    - TUNE: 12 o'clock (adjust for taste)
  4. **Tweak:** Adjust LEVEL, ACCENT, and TUNE for each voice.  
Sequence/CV via VC-TUNE for animation.
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## Key Features Explained

- **Independent Accent:** Unlike the original TR-909, both Crash & Ride have their own Accent controls & inputs.
  - **Accent Input:** Patch CV/gate for detailed dynamics per cymbal. Without Accent input, GATE is internally routed so ACCENT knob works as fine gain.
  - **VC-TUNE:** Modulate pitch manually and with CV (-5V to +5V typical). Sync CV modulation with each gate for creative effects (e.g., patch to envelope or step sequencer).
  - **True Analog 909:** Circuit is a close clone of the original, adapted for Eurorack (-12V/+12V power, compatible with most modular systems).
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# Reference Table: Knobs & Jacks

Control/Jack	Type	Description	Voltage Range / Function
LEVEL	Knob	Output volume	-
TUNE	Knob	Frequency tuning	- (analog, physical sweep)
ACCENT	Knob	Intensity amount	- (scales incoming accent/GATE)
GATE IN (CR/RD)	Jack	Triggers Crash/Ride	0-5V (gate/trigger)
ACCENT IN (CR/RD)	Jack	CV or gate accent control	0-5V (suggested)
VC-TUNE IN (CR/RD)	Jack	CV frequency modulation	-5V to +5V typical
OUT (CR/RD)	Jack	Audio	Modular audio level

## Tips

- Accent can use any gate or CV; try envelopes for dynamic hits.
- VC-TUNE is great for LFO, envelopes, or sequencer-based pitch shifts/ringing sweeps.
- Set ACCENT to minimum if using CV to prevent double-scaling.
- Internally normalized accent means drum sounds stay loud even with only GATE patched.

Manual Source & More: [CYMBL909 Manual PDF](#)

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