

In this series of patches we will be covering classic Drummachine sound-synthesis using the extensive timbral palette of TheBateleur 42hp System for a unique approach and fresh results. Welcome to the Tom Tom Club.

Our CARRIER signal is a combination of Sine & Triangle waveforms. We will modulate those linearly using the VCF in self-oscillation and give the transient the appropriate left using a *Mixed Characteristic 2* Curvature.

Suggested settings: Rounded off attack, decay for body, sustain and release to taste for "width".

Fine-tune the Tom pitch to taste.

Red LED = Mixed Characteristic 2 for a full-bodied attack phase. Toggle through the Envelope Generator's Curvature characteristics by pressing mode + time toggles simultaneously.

Optionally we can add (stackable cables or summing circuits) the velocity information we're extracting from our incoming MIDI data on top of the Envelope CV for a more humanized feel.

Linear Frequency modulation CV input. In our case we'll be using the VCF in self-oscillation for a dynamic pitch variation.

The modulation depth control will set the depth of the MODULATOR vs. CARRIER ratio.

*LED Off = Linear FM mode (default).
**Consult VCO technical specifications on modulation modes and switch positions as well as input ranges.

As usual, the VCA modulation input is normalized to the cutoff modulation input on the Expander module. For this patch, we want to modulate the VCF in self-resonance's pitch using the same envelope CV and setting the depth to taste. This will give us a realistic pitch-swing like hitting the drum-skin.

Set the modulation mode switch to the MID position for Linear FM mode. The modulation status LED* will give us an indication on the type of modulation we're applying.

Sine + Triangle waveform to VCA audio in.

VCO range switch in the MID or 2nd position.

Set the VCF mode switch to the MID or DOWN position for self-oscillation.

Cutoff Frequency control will determine the MODULATOR's pitch.

Add Noise to taste :)

VCF in self-oscillation output (Sinusoid waveform) as a MODULATION signal.

