

# Ohmforce – Bohm

---

- [Manual PDF](#)

---

[Manual PDF / Bohm Documentation](#)

## Using Ohm Force Bohm to build full-length Eurorack songs

---

Bohm is not just a kick module. It is really a **performance-oriented kick system** with:

- a main kick voice (**Bohm**),
- an optional secondary rhythm/rumbler layer (**Groove**),
- an optional sidechain/effects/performance mixer (**Performer**),
- **snapshots, programs, and live modes** for arranging,
- **CV-driven model randomization and step changes**.

That means it can function as a **structural anchor** for full tracks, not just a single drum sound.

The big idea is this:

Use Bohm as the module that defines **sections, transitions, energy, and groove**, while other modules provide melody, bass, hats, percussion, drones, and harmonic movement.

In many Eurorack systems, the loop sounds great but never becomes a song because there is no strong mechanism for: - changing sections, - recalling states, - introducing contrast, - creating fills and transitions, - controlling tension/release over time.

Bohm directly helps with that.

---

# What Bohm contributes to song-making

---

From the manual, the most important song-building features are:

## 1. Snapshot-based recall

---

You can save kicks as **snapshots** containing: - model variations, - and in live contexts, knob positions too.

This is huge for arrangement. Instead of one kick for the whole patch, you can prepare: - verse kick, - chorus kick, - breakdown kick, - bridge kick, - fill kick, - outro kick.

That alone gives you **section identity**.

---

## 2. Programs with up to 16 steps

---

Bohm has: - **32 programs** - each with **1–16 steps** - each step stores a full kick snapshot.

So one program can effectively act like a **song section timeline** or a library of scene recalls.

---

## 3. Song mode

---

In **Live Song mode**, the FUNCTION trigger advances through a sequence of stored kick states.

This means Bohm can become a **section sequencer**: - Step 1 = intro - Step 2 = verse - Step 3 = chorus - Step 4 = verse variation - Step 5 = breakdown - Step 6 = build - Step 7 = drop - Step 8 = outro

Because the next step is cued and becomes active on the next HIT, this is ideal for musically clean transitions.

---

## 4. Jam mode

---

In **Live Jam mode**, you can freely cue the next snapshot from a program.

This is perfect if your songs are not rigidly linear. You can improvise: - extend a breakdown, - jump back to a groove, - bring in a harder kick, - move to a transition state when the room feels ready.

---

## 5. Groove as a second rhythmic energy layer

---

The optional **Groove** expander is extremely important for turning beats into arrangements.

It is not just a copy of the kick: - it can produce repetitions, - reverb-based rumbles, - noise, - grit + sub, - tap envelopes, - stereo shaping, - filtering/distortion.

That gives you section changes without repatching: - tight dry verse, - wider rumble chorus, - noisier breakdown, - minimal kick-only intro, - dense techno drop.

---

## 6. Performer as sidechain mixer / transition processor

---

The **Performer** expander can: - duck external stereo input on every kick, - process either kick, input, or both, - apply DJ filter / LP / HP / beat roll / slip roll, - toggle effects instantly or synced to HIT, - split low frequencies for more transparent ducking.

This is one of the strongest “make it a song” tools in the whole system.

It lets Bohm become the center of: - sidechain pumping, - breakdown filtering, - transition rolls, - live drop effects, - balancing external stems or voices against the kick.

---

# Core strategy: use Bohm as the arrangement brain for rhythm and energy

---

A full-length song in Eurorack usually needs these musical layers:

1. **Pulse** – kick and timing backbone
2. **Groove** – secondary percussion / swing / rumble / syncopation
3. **Bass** – repeating or evolving low-frequency motif
4. **Harmony or texture** – pads, drones, chords, sampled atmospheres
5. **Lead or hook** – melody, riff, vocal sample, acid line, etc.
6. **Transitions** – fills, mutes, filters, drops, crescendos
7. **Section control** – intro / verse / chorus / breakdown / drop / outro

Bohm mainly handles **1, 2, 6, and part of 7**, and it can strongly influence 3 and 4 through pitch tracking, ducking, and audio routing.

---

## The most useful song-building workflows

---

### Workflow 1: Bohm as the “section-changing kick arranger”

---

This is the most obvious and effective use.

#### Patch concept

Use other modules for: - melody sequencer, - bass voice, - hats/percussion, - pads/drone.

Use Bohm to store a different kick+Groove+Performer state for each section.

## Example song map

Program 1: 1. Intro – soft kick, low FX, no Groove 2. Verse – tighter kick, mild Groove taps 3. Chorus – bigger kick, wider stereo, more rumble 4. Verse 2 – slightly brighter transient 5. Breakdown – minimal kick, Performer HP filter on external audio 6. Build – rising FX, stronger ducking, beat roll 7. Drop – full kick + Groove + wide stereo 8. Outro – reduced sustain and FX

Advance steps using: - a manual button, - a trigger sequencer, - an end-of-cycle pulse from a clock divider, - a gate pattern from a song controller module.

## Good companion modules

- **ALM Pamela's Pro Workout** for section-length trigger control
- **Make Noise Tempi** for master clock and divisions
- **Intellijel Steppy** for section change triggers
- **Malekko Varigate 8+** or **Winter Modular Eloquencer** for song-level rhythm control
- **Five12 Vector Sequencer** for coordinated song structure

## Why it works

Even if the rest of the patch loops, the song feels arranged because the **drum identity and pumping behavior** evolve by section.

---

## Workflow 2: Use Bohm Song Mode as a “macro-arrangement spine”

---

Because Song Mode can queue the next step and follow program logic, it can act like the backbone of the performance.

## How to build it

Create one program per song section family: - Program 1 = intro/verse states - Program 2 = chorus/drop states - Program 3 = breakdown/build states

Or one whole song in a single program with up to 16 steps.

Use another module to synchronize larger changes: - sequential switch for bass pattern changes, - preset manager for oscillator/filter states, - clocked sequential trigger switch for drums, - CV recorder or automation source for timbral shifts.

## Best partner modules

- **Make Noise Rene** or **Verbos Sequence Selector** for pattern changes
- **Erica Synths Sequential Switch** or **Doepfer A-151** for switching melodic CV sources
- **Noise Engineering Mimetic Digitalis** for section-specific modulation offsets
- **Acid Rain Maestro** or **Xaoc Devices Zadar** for evolving modulation per section
- **Rossum Assimil8or** or **1010 Bitbox** for section-specific samples/stems

## Song trick

Send the same “section advance” pulse to: - Bohm FUNCTION input, - a sequential switch, - a reset input on your melodic sequencer, - a logic module that opens/closes percussion VCAs.

Then one event changes the whole song section.

---

# Workflow 3: Use Groove to create arrangement contrast without adding more drum modules

---

The Groove expander is ideal for creating the illusion of a much larger drum arrangement.

It can do: - techno rumble, - kick tops, - repeated taps, - noise envelope movement, - sub grit, - stereo width changes, - effect changes.

## Section uses

- **Intro:** Bohm only, Groove volume down
- **Verse:** Groove as subtle tap pattern
- **Pre-drop:** Groove noise source, HP-filtered
- **Drop:** full repetition/rumble
- **Breakdown:** Groove drone using GRV ENV = SUSTAIN
- **Outro:** remove Groove again

## Why it is musically important

A full song usually needs the low-end density to change over time. Groove gives you: - “small” section vs “big” section, - “dry” vs “washy”, - “tight” vs “club-wide”.

That is arrangement.

## Smart external patching

Use the **TAPS output CV** to animate other modules: - open a VCA on a noise hat layer, - modulate a filter on a bass drone, - drive sidechain-like envelope on pads, - hit an LPG for percussive textures.

Since TAPS can output Groove, inverted Bohm, Performer, or Bohm envelopes depending on system setting, it becomes a **song-wide dynamics control source**.

---

# Workflow 4: Use Performer as the glue mixer for full tracks

---

The Performer expander is maybe the most underrated part of Bohm for songwriting.

You can route external stereo audio into it and then: - duck it from the kick, - filter it, - beat roll it, - slip roll it, - process only the kick, only the input, or both.

## This means you can run into it:

- a stereo submix from your whole patch,
- a stereo sampler stem,
- a chord voice,
- drones/atmospheres,
- a melodic bus,
- even an external groovebox.

## Song-building uses

### A. Breakdown generator

Send your whole melodic/percussion mix into Performer. - In full sections: mild ducking, no filter - In breakdown: high-pass the input - In build: increase resonance or beat roll - On drop: return to full-range audio

That is a classic song arc.

### B. Live sidechain architecture

Instead of separately patching envelope followers and VCAs, let Bohm do: - kick, - ducking, - performance FX, - output summing.

Then your song instantly gets the “record-like” pumping and transitions that help loops feel finished.

## C. DJ-style transitions

Use: - **DJ FILTER** for opens/closes, - **BEAT ROLL** for fill energy, - **SLIP ROLL** for stuttered transitions before a drop.

You can perform these by hand or snapshot them as states.

---

# Use Bohm's pitch tracking to create bass lines and song hooks

---

The manual says Bohm can track pitch at **1V/oct** if configured properly: - set PITCH knob fully CCW, - PITCH attenuverter fully CW, - choose the correct voltage range in settings.

This means Bohm is not only a kick. It can become a **tuned bass percussion voice**.

## Musical applications

---

### 1. Kick-bass hybrid line

Sequence pitch CV into Bohm so the kick follows the root note of the section: - verse on C, - pre-chorus on F, - chorus on G, - breakdown on A minor variation.

This alone makes a loop feel like a song because the low end now reflects harmonic structure.

### 2. Sustained gated bass notes

Since HIT can behave as a gate, you can create longer sustained bass/kick notes for: - breakdown bass drones, - pitched sub accents, - tom-like phrases, - pseudo-bassline hooks.

### 3. Call and response with another bass oscillator

Layer Bohm as the transient/low-end thump and use another VCO/filter voice for sustained bass tone.

Good companion modules: - **Instruō Ts-L** - **Intellijel Dixie II+** - **AJH MiniMod VCO** - **Mutable Plaits** - **SSF Zephyr** / **steady utility oscillators** - any LPG/filter/VCA chain

Use a precision adder or sequential switch to change bass transposition by section.

---

## Use presets and switches with Bohm for complete song scenes

---

Bohm can store its own internal states, but full songs become easier when other modules also change state with it.

### Best matching module types

---

#### Preset managers

- **Tiptop Audio ART-oriented preset tools**, if present in your ecosystem
- **Flame Memory Joystick** / **preset-style modules**
- **MIDI-to-CV with preset recall**
- modules with internal patch memory

#### Sequential switches

- **Doepfer A-151**
- **Boss Bow Two** / **Joranalogue Switch 4** / similar utilities
- **Verbos Sequence Selector**
- **Worng Soundstage ecosystem with switched submixes**
- **Shakmat modular switching utilities**

## CV storage / macro control

- Frap Tools USTA
- Mimetic Digitalis
- Voltage Block
- Tetrapad/Tete
- Planar 2 as a performance macro source

## Why this matters

The classic reason a Eurorack patch doesn't become a song is that too many parameters are static.

If Bohm changes section but your bass/filter/harmony don't, it still feels loop-based.

So make Bohm the center of a **scene-change ecosystem**.

---

# Practical song templates using Bohm

---

## Template 1: Techno full-length performance patch

---

### Modules

- Bohm + Groove + Performer
- Master clock: Pamela's Pro Workout
- Bass sequencer: Metropolis or Vector
- Bass voice: analog VCO + filter + VCA
- Hats/percussion: sample module or noise voices
- Texture: stereo sample player or wavetable voice
- Mixer / VCAs / filter / delay / reverb

## Patch

- Pam's clock to Bohm HIT and Groove CLOCK-related timing sources
- Section-advance trigger to Bohm FUNCTION
- Bass voice into its own mixer channel
- Full melodic/percussion submix into Performer IN
- Performer output to master output
- TAPS CV out to modulate hat VCA or pad filter
- Bohm pitch CV from sequencer for tuned kick in selected sections

## Arrangement

- Intro: filtered texture into Performer, no Groove
- Verse: kick + bass only
- Add hats after 16 bars
- Add Groove rumble at chorus/drop
- Use Performer DJ filter for breakdown
- Use beat roll before drop
- Cue harder kick snapshot for final drop
- Remove Groove and lower kick sustain for outro

This can easily become a full 5–8 minute live techno structure.

---

## Template 2: Electro / IDM structured song

---

### Use Bohm for:

- multiple kick models per section,
- transient variation,
- pitch tracking for melodic drum phrases,
- Groove as top/rhythm texture rather than rumble.

### Companion modules

- melodic sequencer with song mode

- logic module for conditional triggers
- random source for fills
- sampler for one-shots and transitions
- wavefolder/FM voice for lead elements

## Song method

Save snapshots with: - dry compact kick for verses, - glitchier FM kick for fills, - brighter transient for chorus, - Performer slip roll for transitions.

Use Jam Mode instead of Song Mode if you want to choose alternate phrase endings live.

---

## Template 3: Ambient / experimental long-form piece

---

Bohm is still useful here, but not just as a four-on-the-floor kick.

### Use:

- PM-K1 model for acoustic physical drum gestures
- gated HIT for long resonant shapes
- pitch tracking for tuned low percussion
- Groove drone behavior with **GRV ENV = SUSTAIN**
- Performer ducking as subtle dynamic breathing

## Companion modules

- resonator voices
- granular sampler
- stereo reverb
- slow CV generators
- clock divider for sparse event timing
- sequential switch for evolving trigger sources

## Structure

- start with sparse PM-K1 impacts and drones
- gradually bring Groove textures
- route ambient stereo bed through Performer for subtle kick-synced breathing
- switch to FM-2X or WT-4 for more synthetic middle section
- return to sparse acoustic model in outro

This is a good example of using Bohm for **narrative evolution**, not just a dance kick.

---

# How to solve the “loop that never becomes a song” problem with Bohm

---

Here are the main strategies.

## 1. Give each section a different low-end identity

---

Most Eurorack jams fail structurally because the kick never changes enough.

With Bohm, change: - model, - transient type, - distortion, - stereo width, - Groove presence, - ducking amount, - Performer effect state.

Even small changes make sections feel intentional.

---

## 2. Use mutes and density control

---

A song develops by **adding and removing layers**.

With Bohm: - remove Groove for reduced sections, - reduce Sustain/Length for tighter moments, - use Performer VOL and ducking to rebalance the full patch, - cue snapshots with less FX and less stereo width for verses, - restore full-width/rumble on drops.

Pair with: - mute modules, - VCAs under sequencer control, - trigger mutes, - switched clocks.

---

### **3. Create transitions, not just pattern changes**

---

A song needs connectors between ideas.

Bohm can supply these with: - beat roll, - slip roll, - DJ filter sweeps, - FX on/off synced to HIT, - transient tone changes, - pitch drops/rises, - randomization for fills.

You can dedicate one or two snapshots per program just to transitions.

For example: - Step 7 = "build" - Step 8 = "fill" - Step 9 = "drop"

---

### **4. Use external audio through Performer**

---

This is one of the clearest ways to make your modular patch feel like a finished track.

Instead of letting all other voices float separately, submix them and send them into Performer. Now the kick can: - carve space, - create pumping, - filter the whole mix for breakdowns, - apply roll effects for transitions.

That kind of integrated dynamics is often what makes a loop become a track.

---

### **5. Make one control event change many things**

---

To build songs, think in **scene changes**.

A single trigger or gate can: - advance Bohm to next step, - switch melodic sequence, - reset clock divider, - open a VCA for pads, - mute hats, - transpose bass.

This is how modular starts behaving like a compositional instrument instead of a perpetual loop.

---

## Excellent module pairings for full-song creation

---

### Sequencers and song controllers

---

Best with Bohm: - **Five12 Vector Sequencer** - **Winter Modular Eloquencer** - **Metropolix** - **Hermod+** - **Varigate 8+** - **Pamela's Pro Workout** as timing brain

These can send: - clock, - reset, - section-advance triggers, - pitch CV for tuned kick, - modulation tied to song sections.

---

### Mixers / VCAs / performance control

---

- **Happy Nerding 3xVCA / 4x Stereo Mix**
- **Befaco Hexmix / Hex VCA**
- **WMD Performance Mixer**
- **Frap Tools CGM**
- **Mute modules** and **sequential switches**

Bohm becomes much more song-capable if you can mute and submix other layers around it.

---

### Modulation

---

- **Acid Rain Maestro** for hands-on section modulation
- **Voltage Block** for timeline automation

- **Zadar** for complex envelopes
- **Pam's** for synchronized modulation
- **Batumi** for LFO-based movement

Use them to vary: - filter opening, - bass tone, - delay send, - drone level, - percussion density.

---

## Switching / logic / utilities

---

- **Doepfer A-151**
- **Joranalogue Compare 2**
- **Klavis Logica XT**
- **Mutable Branches / logic equivalents**
- **Sequential switches**
- **clock dividers**

These are essential for full-song architecture. Bohm provides the section concept; utilities distribute it.

---

## Samplers and texture modules

---

- **1010 Bitbox**
- **Rossum Assimil8or**
- **Morphagene**
- **Squid Sample**
- **stereo loopers or sample players**

These pair extremely well with Performer's ducking/filtering. You can run: - pads, - vocals, - noise beds, - percussion loops, - field recordings through Performer and make them "breathe" with the kick.

---

# Concrete patch recipes

---

## Recipe 1: 6-minute techno arrangement

---

### Goal

A full track with intro, build, drop, breakdown, second drop, outro.

### Bohm setup

Create snapshots: 1. Intro minimal kick 2. Verse kick 3. Verse + light Groove 4. Drop kick + full Groove 5. Breakdown filtered input only 6. Build with beat roll 7. Main drop with harder FX 8. Outro reduced kick

### Other modules

- bassline sequencer with two patterns
- hats/percussion on mutes
- stereo pad/sample into Performer input
- master clock + section trigger module

### Performance

Advance FUNCTION every 16 or 32 bars. Use manual mutes for hats and percussion. Let Performer handle the big transitions.

---

## Recipe 2: Song with harmonic movement

---

### Goal

Make the kick support chord changes.

## Patch

- pitch sequencer muted to bass voice and Bohm PITCH CV
- Bohm configured for 1V/oct tracking
- long HIT gates in some sections for bass-like sustain
- Groove only during choruses

## Result

The kick root follows the song harmony.

This is subtle but extremely effective for making the arrangement feel composed.

---

## Recipe 3: Live improvisational set

---

### Goal

A non-linear performance where you can extend sections as needed.

### Setup

- Use Jam Mode
- Store 8–12 snapshots in one program:
  - 2 intros
  - 3 groove states
  - 2 breakdowns
  - 2 build states
  - 3 drops

### Pair with

- manual mute mixer
- joystick macro controller
- trigger pads or pressure controller
- stereo texture source into Performer

## Result

You can respond to the room while still having structured, recallable section changes.

---

# Best practices for turning Bohm into a song tool

---

## Prepare snapshots as musical roles, not just sound presets

---

Don't save 10 random kick tones. Save: - intro, - verse, - verse lift, - chorus, - build, - breakdown, - fake-out, - final drop, - outro.

Name them accordingly.

---

## Use programs as songs or song banks

---

A practical approach: - Program 1 = track 1 - Program 2 = track 2 - Program 3 = track 3

Or: - Program 1 = intros - Program 2 = main grooves - Program 3 = transitions - Program 4 = drops

Depends whether your live set is fixed or improvised.

---

## Set knob behavior intentionally

---

The manual gives: - **Latch** - **Relative** - **Override**

For full-song work: - use **Override** for knobs you want live control over all the time, - use **Latch** when you want snapshot accuracy first, - use **Relative** when you want safe morphing from stored states.

For example: - Bohm COLOR in Override = always playable - Performer FX in Latch = recall exact transition states - Groove VOL in Relative = easy live balancing

---

## Use Performer Exclude/Include wisely

---

If you want the same global performance FX setup across many steps, leave Performer **excluded** from step recalls. If each section needs specific filtering/ducking/FX states, set it to **include**.

That is very useful for deciding whether Performer acts like: - a global performance bus, or - a per-section arrangement processor.

---

## Build transitions into your clocking

---

A full song is often just: - 16 bars groove, - 8 bars variation, - 8 bars build, - 16 bars drop, - 8 bars breakdown.

Use clock dividers or song sequencers to send FUNCTION triggers at those boundaries.

This avoids the endless-loop trap.

---

## Limitations to keep in mind

---

Bohm is powerful, but it is not a full song workstation by itself.

It does **not** replace: - a melodic sequencer, - a voice allocator, - a full mixer, - VCAs and mutes, - utility logic, - dedicated harmonic control.

Its strength is that it gives your patch: - **section recall** - **rhythmic identity** - **dynamic glue** - **performance transitions** - **low-end evolution**

That is exactly the set of things many modular systems lack when trying to become full songs.

---

# My recommended “full song” mindset with Bohm

---

If I were building songs around Bohm, I would think of it in these roles:

## **Bohm = arrangement kick instrument**

---

Use saved states to define sections.

## **Groove = energy and density control**

---

Bring it in and out to scale the arrangement.

## **Performer = master movement processor**

---

Sidechain, filter, and transition the rest of the patch.

## **External modules = notes, harmony, color**

---

Let sequencers, oscillators, samplers, and mixers provide the musical content around Bohm’s structure.

When used like that, Bohm becomes less of a drum module and more of a **song-form engine for live modular performance**.

---

# A strong practical setup for full-length songs

---

If you want one concrete recommendation, here is a very effective architecture:

## Core

---

- Bohm + Groove + Performer
- Pamela's Pro Workout
- one bass sequencer + bass voice
- one melodic/sample voice
- one hat/percussion source
- submixer
- a few VCAs/mutes
- reverb/delay

## Routing

---

- Bohm is master kick
- Groove adds sectional density
- all non-bass melodic material goes into Performer IN
- Performer OUT goes to main output
- bass stays partly separate or mixed carefully to preserve low-end clarity
- section triggers from Pam's or sequencer go to Bohm FUNCTION
- TAPS CV modulates hats or melodic amplitude/filtering

## Musical result

---

You get: - kick evolution, - automatic pumping, - breakdown filters, - fill effects, - song sections, - room for improvisation.

That is enough to make genuinely full-length modular tracks.

---

# Final takeaway

---

The key to using Bohm for full songs is not just “making a better kick.” It is using its **snapshots, programs, Song/Jam modes, Groove layer, and Performer bus processing** as a framework for:

- section changes,
- tension and release,
- transition effects,
- mix movement,
- low-end evolution,
- and coordinated performance control.

If you combine Bohm with: - a clock/song trigger source, - melodic/bass sequencers, - mixers and VCAs, - switches and utilities, - and a stereo source into Performer,

then Bohm can become one of the most effective modules in a Eurorack system for turning a good loop into a full, performable song.

---

[Generated With Eurorack Processor](#)