

# Ohmforce — Bohm

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- [Manual PDF](#)
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[Ohm Force Bohm Eurorack Manual](#)

## Using Bohm, Groove, and Performer to create melodic components

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Although **Bohm** is presented as a stereo dual-voice **kick** system, the manual makes it clear that it can do much more than drum duties. Used together, **Bohm + Groove + Performer** can become a compact **melodic bass / riff / drone / resampling / performance FX voice** for Eurorack.

### Big picture

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These modules can create melody in four main ways:

1. **Bohm as a pitched synth voice**
2. The manual explicitly states that **pitch tracking can be used to play bass lines**.
3. Bohm's kick engine becomes a playable oscillator/enveloped synth when you use:
  - **PITCH CV**
  - a long enough **LENGTH**
  - optionally a **gate** on **HIT** instead of a short trigger
4. **Groove as a second related melodic voice**
5. Groove is a second kick voice triggered by **CLOCK**

6. Its **PITCH** and **LENGTH** are **relative to Bohm**

7. That makes it ideal for:

- harmonically related bass doubling
- octave / interval reinforcement
- rhythmic melodic repeats
- drones and rumble beds

8. **Performer as a melodic processor**

9. Performer adds:

- stereo input
- ducking
- performance FX
- selectable processing of **kick, input, or both**

10. This means Bohm/Groove can be used as melodic sources, while Performer shapes them into playable transitions, filter sweeps, beat-roll textures, and sidechained musical layers.

11. **Snapshots and Live modes as “preset melody states”**

12. A snapshot stores:

- model variations
- knob positions

13. Programs and Live modes let you sequence or cue different melodic states:

- bassline section
  - chorus octave
  - breakdown drone
  - distorted lead-like hit
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# 1. Bohm as a melodic voice

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## Pitch tracking

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The most important melodic feature in the manual is here:

- Bohm **PITCH** spans approximately **C1 to C2**
- It supports **1V/oct pitch tracking**
- For proper pitch tracking:
  - set **PITCH knob fully counterclockwise**
  - set **PITCH attenuverter fully clockwise**
  - choose the proper **Pitch CV system setting**:
    - 0..1V
    - 1..2V
    - 2..3V
- ensure your sequencer outputs **1 Volt per octave**

This means Bohm can function as a **monophonic bass synth voice** over a one-octave window, depending on configuration and model behavior.

## Use HIT as a gate, not only a trigger

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The manual says:

- **HIT can work both as a trigger or a gate**
- If **HIT remains on**, the kick sustains
- When HIT is released, the sound decays

For melody, this is huge. It means you can send: - a **gate sequence** - a keyboard/gate - a sequencer with variable gate lengths

This transforms Bohm from a percussive one-shot into a **sustained playable voice**, especially for: - basslines - drone notes - acid-like plucks - sustained sub melodies

# Envelope controls for note shaping

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Even when using Bohm melodically, the kick controls become useful synth-shaping controls:

- **LENGTH** = total note duration / tail length
- **SUSTAIN** = body/level of the sustained note
- **ATTACK** = transient amount and attack emphasis
- **CURVE** = pitch envelope behavior
- **TRS DECAY** = click/transient duration
- **TRS TONE** = transient brightness
- **COLOR** = timbral evolution of the oscillator
- **FX** = post effect amount

So for melodic use: - reduce transient-heavy settings for smoother notes - lengthen **LENGTH** - increase **SUSTAIN** - use **HIT gate** for true sustain - use **COLOR** and **FX** as musical tone controls

## Which Bohm models are most melodic?

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From the manual, these are especially promising:

### FM-2X

Best for: - FM basslines - techno bass melodies - metallic subs - playable low-end riffs

Why: - 2-operator FM structure - **ATTACK** controls FM amount - **TRS TONE** changes modulator waveform - **RATIO** variation changes harmonic relationship

Musically, this can move from: - clean sine-ish bass - to punchy FM bass - to more overtone-rich melodic lines

### HZ-1

Best for: - classic electronic basslines - smoother melodic kick-bass hybrids

Why: - wavetable oscillator + transient synth - analog-style wavetable options - variable click choices

## **VX-T**

Best for: - sharper, articulated melodic parts - percussive leads - bass + hi-click hybrid sequences

Why: - transient synth is more pronounced and tunable - can create top-heavy melodic attacks

## **WT-4**

Best for: - rounded “analog-style” melodic bass - layered, musical low-end phrases

## **SP-6 / PX3**

Best for: - more aggressive melodic content - industrial / experimental riffs - textured bass hooks

## **XT-88**

Best for: - custom melodic design

Why: - load your own **wavetables** - load your own **samples** - tune **BRIGHT** and **LAYER VOL** - create a hybrid oscillator + sampled layer melodic voice

This is probably the most powerful model if your goal is to turn Bohm into a custom bass instrument.

## **PM-K1**

Less useful for conventional melodic sequencing: - It is a **physical model of an acoustic bass drum** - many usual controls are inactive - Groove is not supported with it

Still usable for tuned tom-like or acoustic drum-pitched lines, but not the first choice for melodic work.

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## 2. Groove as a second melodic layer

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Groove is described as a **secondary kick voice**, often for rumbles or tops. But the architecture makes it very useful melodically.

### Groove follows Bohm

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Its key melodic behavior:

- **PITCH on Groove is relative to Bohm PITCH**
- **LENGTH on Groove is relative to Bohm LENGTH**
- center position = same as Bohm
- left = lower than Bohm, but not below Bohm minimum
- right = higher than Bohm, but not above Bohm maximum

This means Groove is ideal for making a **dependent second voice**, such as:

- tuned reinforcement
- note doubling
- octave-above or octave-below feel
- interval-shifted taps
- moving rumble tied to the bassline

### Groove sound generators as melodic textures

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Groove contains 4 sound generators:

1. **Repetitions of the Bohm kick**
2. **Kick reverb**
3. **Noise**
4. **Grit + sub frequency**

Selected/blended with **COLOR**.

## Repetition mode

This is the most obviously melodic: - every **CLOCK** trigger retriggers a “tap”  
- these are not delayed echoes; they are fresh rhythmic retriggers - tap levels are controlled by: - **2 - 3 - 4 - TAPS CV**

This can create: - bass arpeggio-feel repeats - galloping subs - ratcheted low-end motifs - pseudo-sequenced melodic subdivisions

If Bohm is pitch-tracked, Groove’s repetitions inherit a harmonically related pitch context.

## Reverb / noise / grit+sub modes

These are not “pitched melody” in the classic sense, but they are useful for **melodic support layers**: - resonant rumble tails - tuned sub under a note - noisy top texture following a bass phrase - sustained drone synced to melodic events

## Groove can become a drone

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The manual notes: - **GRV ENV** system option can be: - **FALL** - **SUSTAIN**

With **SUSTAIN**, Groove can hold after the 4th tap level, which is excellent for: - bass drones - sustained harmonic beds - one-note underpinning below a melody - transitions and breakdowns

Also: - **Perf Vol option** can be set so Performer VOL controls only **BOHM** - the manual says this allows **Groove to drone without hearing the Bohm kick**

That is extremely useful melodically: - Bohm can act as the triggering/ pitched event source - Groove can become the sustained note layer

## Groove FX as tonal shaping

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Groove effect variations: - **LP** - **HP** - **BP** - **DIST**

This means Groove can function as: - a filtered bass shadow - a band-passed tonal repeat layer - a high-passed melodic top - a distorted harmonic duplicate

And **STEREO** width can widen the melodic layer spatially.

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## 3. Performer as the melodic glue and live processor

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Performer is not a voice generator by itself, but in a melodic patch it becomes the key to making Bohm/Groove feel like a complete musical instrument.

### External audio as another melodic source

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Performer has: - stereo **IN** - ducking based on **HIT** - effects - routing selector

So you can bring in: - another oscillator voice - a chord source - a sampler loop - a drone - a bassline from another module

Then combine it with Bohm/Groove.

### Ducking for rhythmic phrasing

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The external input is ducked on every **HIT**. That means if you send in a drone, pad, or sustained oscillator: - Bohm can carve rhythmic space into it - creating a pulsing harmonic layer - synced to the melodic bass events

Performer variations make this more subtle and musical: - **DUCK TIME** = release time - **DUCK SMTH** = smoothing - **DUCK BS** = band split frequency

This is great for melody because you can: - duck only lows while preserving highs - create sidechained bass + sustained top - keep chord clarity while pulsing the low band

# Selective FX routing

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Performer **CHN** variation: - ALL - KICK - INPUT

This allows several melodic configurations:

## **KICK only through FX**

Use if Bohm/Groove are your melodic voice and you want: - filter sweeps on the bassline - beat roll on the bass - live stutter transitions

## **INPUT only through FX**

Use if Bohm is your rhythmic melodic anchor and incoming audio is a pad/lead/drone.

## **ALL**

Process the full combined musical texture.

# Performer effects for melody

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Available variations: - **DJ FILTER** - **HP** - **LP** - **BEAT ROLL** - **SLIP ROLL**

These are excellent for melodic performance:

## **DJ FILTER**

- center is neutral
- CCW low-pass
- CW high-pass
- **DJ RESO** controls resonance

Perfect for: - opening/closing basslines - breakdown filtering - morphing a bass phrase into a thin lead-like line - isolating highs from an incoming melodic texture

## HP / LP

Useful for: - carving low-end vs top-end - creating arrangement movement - making one melodic layer sit behind another

## BEAT ROLL / SLIP ROLL

These can turn sustained or repeating melodic material into: - glitch fills - stutters - rhythmic note slicing - end-of-phrase transitions

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# 4. Practical melodic patch strategies

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## A. Bohm as a bass synth voice

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**Patch** - Sequencer pitch CV -> **PITCH CV** - Sequencer gate -> **HIT** - Audio from **OUT**

**Set** - **PITCH** knob full CCW - **PITCH** attenuverter full CW - system **Pitch CV** to correct range - **LENGTH** fairly long - **SUSTAIN** up - moderate **ATTACK** - reduced transient if too clicky

**Result** - monophonic bassline voice - especially strong with **FM-2X**, **HZ-1**, **WT-4**, **XT-88**

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## B. Bohm bassline + Groove octave/tap melody

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**Patch** - Same as above - Clock divider/multiplier or 16th clock -> **Groove CLOCK**

**Set** - Groove **PITCH** slightly above or below center - Groove **LENGTH** to taste - Use **2 / 3 / 4** to shape repeats - Groove **COLOR** toward repetition source - Groove **FX** with BP or DIST

**Result** - Bohm gives the root note - Groove gives related rhythmic melodic taps - feels like a bassline with ratchets or ghost notes

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## C. Bohm as note attack, Groove as sustained drone

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**Patch** - Melodic gate/pitch into Bohm - Regular clock into Groove - Use Performer if available

**Set** - Groove system **GRV ENV = SUSTAIN** - Groove level up - Bohm more transient-forward - If Performer present, set **PERF VOL = BOHM** so Groove can remain independent - Optionally duck external audio with Performer

**Result** - Bohm articulates notes - Groove forms sustained harmonic/sub layer - excellent for techno hypnosis and dark ambient low-end melody

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## D. Bohm + external oscillator/chords through Performer

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**Patch** - Bohm sequenced melodically - External stereo or mono voice into Performer **IN** - Optionally send a chord or drone source

**Set** - **DUCK** to taste - **DUCK BS** so low band ducks more than highs - **CHN = INPUT** or **ALL** - Use **DJ FILTER** or **LP** - toggle FX synced to **HIT** for phrase changes

**Result** - Bohm acts as rhythmic/melodic bass anchor - incoming voice becomes breathing accompaniment - very effective for live melodic techno

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## E. Snapshot-based melodic arrangement

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Because snapshots save: - model variations - knob positions

you can prepare multiple melodic identities: - Step 1: clean FM sub bass -  
Step 2: brighter distorted chorus bass - Step 3: long drone breakdown -  
Step 4: filtered/stuttered fill

Then use: - **Song mode** for fixed arrangement - **Jam mode** for  
improvisational cueing

This is one of the strongest non-obvious melodic uses in the manual:  
Bohm becomes a **preset-morphing low-end instrument** rather than just a  
kick generator.

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## 5. Best model choices for different melodic roles

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### Best for basslines

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- FM-2X
- HZ-1
- WT-4
- XT-88

### Best for aggressive riffs

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- PX3
- SP-6
- OLP4

### Best for custom melodic sound design

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- XT-88

## Best for acoustic/tuned drum melodies

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- PM-K1

## Best for clicky articulated phrases

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- VX-T
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# 6. Most useful system settings for melodic use

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These matter a lot.

## Pitch CV

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Set to: - 0..1V - 1..2V - 2..3V

depending on your sequencer's voltage span.

## ATTVERT 2

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The **SUSTAIN attenuverter** can instead control **VELOCITY CV**. This can be useful if you want more expressive sequencing of note dynamics rather than sustain amount.

## GRV ENV

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- FALL for rhythmic behavior
- SUSTAIN for drones and held layers

## TAPS OUT

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Can output: - Groove envelope - inverted Bohm envelope - Performer envelope - Bohm envelope

This is very useful for melodic patches because you can use the output to animate other modules: - open a filter on another oscillator - duck a bass drone - modulate VCA on a melodic layer - create envelope-following accompaniment

## PANNING

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You can hard-pan: - Bohm - Groove - Performer input

This is surprisingly useful for melodic patching: - route Bohm to left and Groove to right - process them separately downstream - build mono dual-line structures from the stereo output

## POST EQ

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Useful for tuning Bohm/Groove into a more musical role in a mix: - tame club boom - emphasize note definition - shape bassline presence

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# 7. Creative melodic techniques

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## Use Bohm as a limited-range but very characterful bass synth

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It won't replace a full-range oscillator voice, but within its designed range it can produce very strong, mix-ready melodic low-end.

## **Use Groove as “melodic repetition” rather than rumble**

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Because Groove repetitions are retriggered taps, not delay echoes, they can sound tighter and more intentional than a traditional delay.

## **Turn kick changes into harmonic section changes**

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Different Bohm models and snapshots can behave like: - verse bass - chorus bass - breakdown drone - fill/stutter preset

## **Use Performer to make melodies breathe**

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With selective ducking and filter FX, Performer can make even static external melodic material feel locked to the kick/bass phrasing.

## **Use XT-88 to build a custom melodic hybrid**

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Load: - your own wavetable for pitch body - your own sample for attack/layer

That gives you a very personalized bass instrument.

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# **8. Limitations to keep in mind**

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## **Bohm is not a general-purpose wide-range melodic oscillator**

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The manual frames pitch around **C1 to C2**, so this is mainly: - bassline territory - low melodic hooks - tuned percussive phrasing

## Model interpretation varies

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Each model interprets controls differently, so “melodic sweet spots” will vary significantly by model.

## Groove pitch is relative, not fully independent

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This is great for coherence, but less ideal if you want a completely separate second melody.

## Model loading time matters in live sequencing

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In Song mode, steps need enough time for preloading. Extremely rapid melodic preset switching may be constrained.

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# 9. Best real-world musical roles

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Used together, these modules are especially good for:

- **melodic techno basslines**
- **industrial bass riffs**
- **electro low-end hooks**
- **acid-adjacent FM sub sequences**
- **drone + pulse hybrid lines**
- **live performance transitions**
- **sidechained melodic layering**
- **preset-based bass arrangement changes**

In practice, the strongest melodic identity of the system is:

**Bohm = pitched low-end voice**

**Groove = related rhythmic/sub/drone companion**

**Performer = sidechain, filter, and transition processor for the whole musical layer**

That combination makes the system much more than a kick module—it can function as a **complete low-end melodic instrument with performance control**.

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## 10. Recommended starter melodic patches

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### Patch 1: FM techno bass

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- Model: **FM-2X**
- Pitch sequence -> PITCH CV
- Gate -> HIT
- Long LENGTH
- Medium SUSTAIN
- ATTACK moderate
- TRS DECAY low
- Groove on 16ths, low in mix

### Patch 2: Rolling melodic rumble

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- Bohm plays root bassline
- Groove CLOCK on 16ths
- Groove COLOR toward repetitions/reverb blend
- Groove PITCH slightly above center
- Groove BP effect
- Performer DJ filter on ALL

### Patch 3: Drone bass with rhythmic articulation

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- Bohm receives sparse gated notes
- Groove set to **SUSTAIN**
- Performer ducks incoming drone or chord source

- Use TAPS OUT or Bohm env to animate another VCA/filter

## Patch 4: Custom hybrid bass

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- Model: **XT-88**
  - User wavetable for oscillator
  - User sample for layer
  - Sequence PITCH CV and HIT gate
  - Snapshot several variants for song sections
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## Bottom line

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**Yes—these modules can absolutely be used to create melodic components.**

Not as a conventional polysynth, but as a highly characterful **low-register melodic system**.

If you think of them as:

- **Bohm**: a playable kick-bass oscillator voice
- **Groove**: a harmonically linked second voice / repeater / drone
- **Performer**: a sidechaining and FX performance mixer

then together they become a powerful tool for **bass melodies, rhythmic melodic motifs, drones, and live-evolving low-end arrangements**.

[Generated With Eurorack Processor](#)