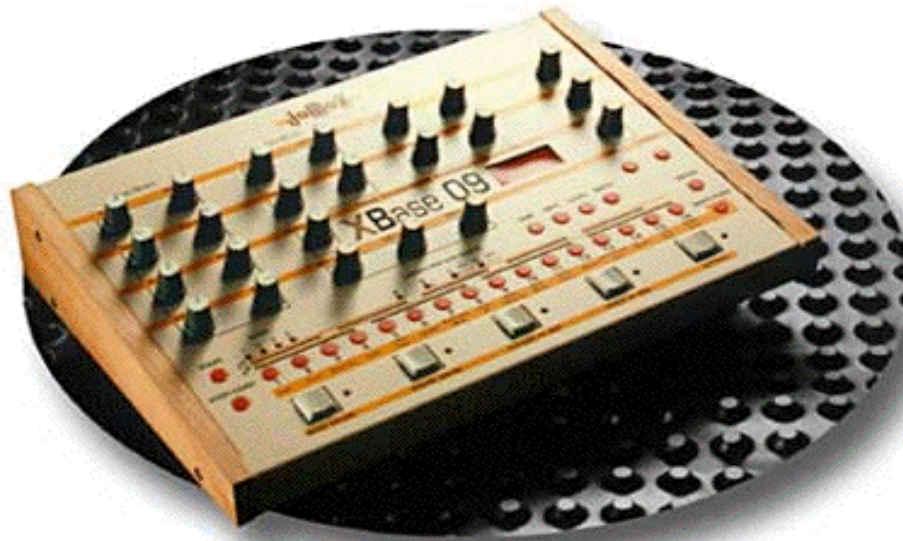


The emulation of the **Jomox XBase 09** on Clavia's Nord Modular

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(this document is optimized for a resolution of 600 x 800 dpi or higher)

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Introduction

For a better understanding on how to handle the Jomox XBase 09 Patches, I wrote this ReadMe. I hope this helps you. I didn't programm the Hihat Section, because on the original it is realized with 6-bit samples (if it is not in this package and you want to have these, email me). Because of the lack of more morphs I have done 2 patches, one for the Bass Drum and one for the Snare Drum section.

Some words about the XBase 09

I owned this box for about 4 months and want to tell you that this is an amazing piece of gear. I never sold the XBase 09 if I couldn't handle a good price for it and didn't needed the money. It has an incredible tight and cool sequencer, the BD section is not only a copy of a 909, with the long decay you can use it like a monophone synth (the pitch is not very stable, it is an analog box, but usable) with 2 LFOs and every soundparameter is controlable over midicontroller (you can use it as a faderbox for example). IMHO it is a piece of gear like Clavia's products, something you never regret if you bought it, and this on an incredible low price. If you own a TR909, sell it and buy 3 XBases for the money (for our Analog fraction: it has also a DIN sync out!). You will never have the same feeling on programming it with the Nord Modular, further there are some things concerning the internal sequencer which makes it near impossible to emulate its capabilities: the XBase 09 sequencer can play EACH step with different settings of sound, so you can do for example a snare drum which sounds on every step on a higher pitch, different grade of decay, and so on. Especially with its internal 2 LFOs you can programm incredible strange loops, all this is very easy and fast to realize. Of course, you could do a lot of this things with a sampler, but what we do and what not is most of time a question of the interface, of its ease of use. Anyway, with my patches you can make your Modular sounding near the XBase 09 BD and SD section.

Some words about analog synths in general and emulating them on the Nord Modular

You surely know that on analogs if you change a parameter, for example decay, not only this parameter changes, also other things happens. So I used the morphs, but I hadn't enough of them (only 4 per section). This brought me additional problems, because if knob 1 on the XBase 09 changes parameters x, y and z, and Knob 7 a, b and z, what should I do if all the morphs are used already? And, if a parameter is used by a morph, I can assign this parameter to a knob, but it doesn't always change the parameter, it changes the morph range. So if the morph sets the parameter to 1 (range 1-50) and I turn the knob which this parameter is also assigned, to 40, it changes the morph range to 40-50... not easy, hmmm? Furthermore if you want to emulate this on a machine like the Nord Modular, you will remark the differences between the modules, like the filter sounds different, or the main wave form. So I needed to solve these problems by further modules. These patches aren't simply copies of the XBase 09 modules and its routings, because like this I never could get the same sound. Also problematic is the way *how* the knobs act. Sometimes a nonlinear curve would help a lot.

As you see, I had to fight with several problems (and much harder: problems I never had before; I have experiences in programming *one* sound, but not in emulating whole machines). Regardless of all these things, it was a lot of fun doing this, and if ever I have the possibility to get a machine for some weeks, I would do it again. If you have any "sample-sets" of old synths (one sample per knob position, for example you have a synth with 10 parameters, decide to sample the settings in this way: Knob 1:0 knob 2:0 ... knob 10:0 - knob 1:30 knob 2:0...knob 10:0 - knob 1:60... and so on).

About this version (2.2)

This is the release version (as I began, I didn't know that I make it public some day, that's why it is on 2.2...). I added the LFO section, improved the "interface", wrote this manual, completed the notes in the patch and added some parameters to the knobs which seemed to make sense for getting more sounds but aren't original XBase 09 parameters. Below in the descriptions of the patch you can read which knobs are not .

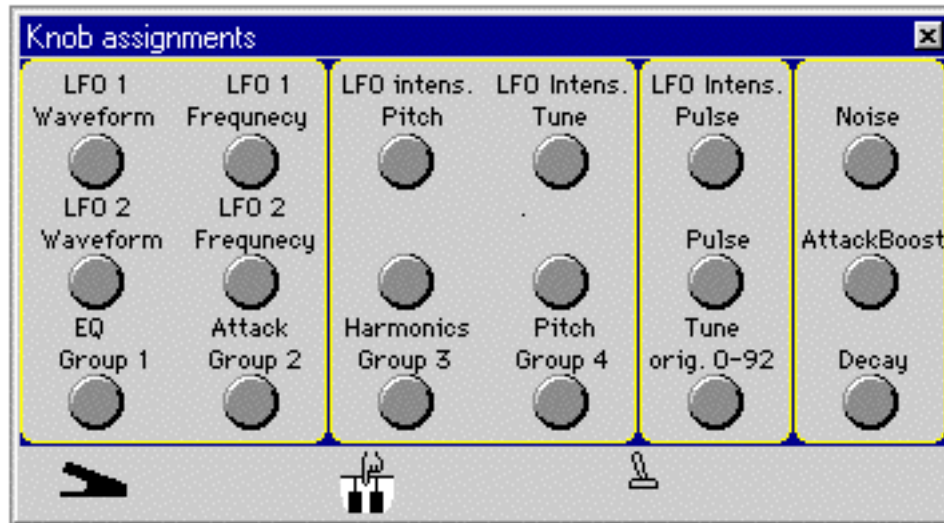
The front of the Jomox XBase 09

The picture shows you the XBase 09's interface. Because it isn't very sharp, Below you see a list with the parameter of its instruments sections.



Bass Drum		Snare Drum		Hi Hat	
Tune	Pitch	Tune	XSnapp	Tune	HH Bal.
Decay	Harmonics	Decay	Detune	CIH Decay	OpH Decay
Pulse	Noise	Noise			
Attack	EQ				

The Bass Drum Section



* for a better understanding this picture of the knob floating window is edited by hand, because the nord modular editor doesn't allow to name parameters themselves, only whole modules.

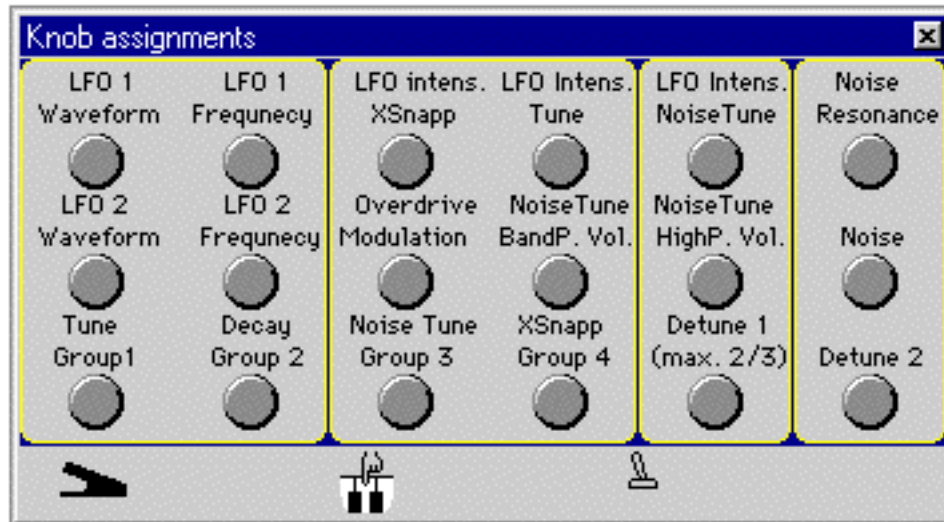
Knob	Parameter
1:	LFO 1 Waveform
2:	LFO 2 Waveform
3:	Morph 1 EQ
4:	LFO 1 Rate
5:	LFO 2 Rate
6:	Morph 2 Attack

Knob	Parameter
7:	LFO Modulation Deep Pitch
8:	
9:	Morph 3 Harmonics
10:	LFO Modulation Deep Tune
11:	
12:	Morph 4 Pitch

Knob	Parameter
13:	LFO Modulation Deep Pulse
14:	AttackBoost (not original); sets range of M2 noise out
15:	Tune (original 0-92)
16:	Noise
17:	Pulse
18:	Decay: min. 170ms, max. 2.5s

For best results add some low frequencies on your mixer`s EQ.

The Snare Drum Section



* for a better understanding this picture of the knob floating window is edited by hand, because the nord modular editor doesn't allow to name parameters themselves, only whole modules.

Knob	Parameter
1:	LFO 1 Waveform
2:	LFO2 Waveform
3:	Morph 1 Tune
4:	LFO 1 Frequency
5:	LFO2 Frequency
6:	Morph 2 Decay

Knob	Parameter
7:	LFO Intensity XSnapp
8:	OD Modulator Frequency (not original, O-value on 1.2 kHz)
9:	Morph 3 Noise Tune
10:	LFO Intensity Tune
11:	NoiseTune BP vol. (not original)
12:	Morph 4 XSnapp

Knob	Parameter
13:	LFO Intensity Noise
14:	NoiseTune HP volume (not original)
15:	Detune *
16:	Noise Resonance. Original value around 80, good for HH sounds
17:	Noise
18:	Detune *

* Knob 15+18 15 only for the punchy sound which comes by twiddling "detune". Because of the lack of more morphs you must know that you shouldn't turn knob 15 to the maximum, 2/3 is the highest value.

The Hi Hat Section

The Jomox XBase 09 Hi Hat section plays 6-bit samples (Hi Hat, Crash, Ride, Clap) or Noise (not a sample). Because of that wouldn't make much sense to make a patch for this section. It is really simple to emulate it, at least my MPC sounds perfectly same. What you must know, is that the XBase 09 can transpose them in a wide range (the noise of course not!). Further you can change the decay. I recorded them with maximum decay, so you can reduce it as you like. Another feature is that you can play them in reverse mode, also the two LFO are routable to them (tune).

The LFO section

The Jomox XBase 09 has 2 LFOs. They are routable to several parameters and to themselves (for example LFO1 to LFO2 to SDXSnapp).

Parameter	Value
Waveforms:	Square Saw Tri Sine
LFO Frequency:	0-127 (didn't looked for that)
Modulation Intensity:	0-127
Routable to:	BDTune, BDPitch, BDPulse, SDTune, SDXSnapp, SDNoise (not shure about the last) and LFO
sync:	to midiclock or free running

Important Information

For further Information on the XBase 09's parameters and what they does, go to www.jomox.de. Warning: The descriptions you'll find there could differ from the realisation in the patch. I alway tried to get the nearest sound, not to hit the original wiring.

The XBase 09 Pack for the Nord Modular contains the following files:

XBASE 09 BD 2.2.PCH	Patch for the Nord Modular (Bass Drum)
XBASE 09 SD 2.2.PCH	Patch for the Nord Modular (Snare Drum)
XBHHCLO.WAV	Sample Hi Hat Closed
XBHHOPEN.WAV	Sample Hi Hat Open
XBCRASH.WAV	Sample Crash
XBCLAP.WAV	Sample Hand Clap
XBRIDE.WAV	Sample Ride
XBNOISE.WAV	Sample Noise (long)
XBase 09 for nm v2.2 ReadMe.PDF	The document you are reading

If you downloaded this package without the samples, you can email me for them: loopo@swix.net

Questions, suggestions and anything other email to: lucienpeter@swix.ch

Disclaimer

The XBase 09 Pack for the Nord Modular is freeware, you can give it to anybody. If you want to put it on your webpage, you can do it, but it must be indicated that the author is "Lucien Peter". You can put it without the samples, but **always** with the two textfiles ("XBase 09 nm v2.1 ReadMe.pdf" and "important info") and the two patches.

If you want to put it on a commercial CD (like shareware CD or whatever) you must ask me first and wait for my answer. It was a lot of work realizing this package, so I want to know the ways it goes.

Making the XBase 09 package complete...

The ultimate addition to this patch would be a Logic Environnement which allows to emulate the XBase 09's stepsequencer (every step another soundsetting). Because I don't own Logic Audio, I can't do it myself. Some months ago a stepsequencer environnement was published in German Keyboards or Keys magazin . If you want it for a further programing or just for fun, I could post it to you. I would like to add it to this package, but I want to ask the author before I do that.

In the between time

Have fun!!!

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