NC PHONE BEAT CHANGELOG

What changed, and what is still known open.

V0.3.1 | ANDROID 9.0+ | CHANGELOG

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0.3.1 — TUNING, MIXER AND PROJECT FIXES

2026-11-01

- The 808 oscillator ran about 2.6 octaves sharp because phase was advanced in radians and multiplied by 2π again. Phase is cycles everywhere and X-Sub tracks f/2 or f/4.
- 808 filter and distortion state is per voice and resets on note-on, not shared by every instance.
- Synth strips now route to the real JUNO/BASS/DX7/ROMPLER instruments, so fader, pan, mute and solo apply. Duplicate synth tracks return the existing strip.
- A step with `repeats = N` counts one loop at a time; four repeats plays four loops, not ten.
- Stem export excludes the click and the master FX bus; project save keeps tempo and all 16 bank slots and reload selects the saved slot.
- The JUNO chorus knob is implemented as two opposite-phase modulated taps.
- Replaced sample buffers retire eight render blocks after replacement instead of accumulating; failed engine init no longer leaves a dangling handle.
- SUSTAIN pad mode latches; mic recording cannot busy-spin; stem rendering, `.ncbeat` export and project fsync run off the main thread.
- Master FX decay is capped at 0.88 with shimmer engaged; the buffer hint reaches Oboe and reopens once when the slider is released.
- 20 suites / 194 tests. Native engine builds for arm64-v8a, armeabi-v7a, x86 and x86_64.

0.3.0 — VERIFIED BASELINE

2026-10-28

- First public beta APK published for Android 9.0+ on 2026-10-30.
- 11 suites, 128 tests, zero failures.
- DSP, pattern and edit snapshots, undo, recording and pad performance covered.
- .ncbeat fixtures, WAV export and project serialization covered.
- Known gap: audio stream reopen on device routing changes is still a TODO.

0.2.0 — SAMPLING AND PATTERNS

2026-10-24

- 16-pad banks with per-step ratchet, probability and swing.
- Four onboard synths and the shared FX chain.
- Sample import and kit mapping.

0.1.0 — FIRST INTERNAL BUILD

2026-10-18

- Native C++17 playback engine and Kotlin pattern model.
- Basic step grid and pad performance.