INDEPENDENT AUDIO SOFTWARE

LYNCH Broken Wah

Play the sweep. Break the surface.



Move from a familiar heel-to-toe cry to input-following, gesture-based or tempo-driven motion. Five voices and independent colour placement let the sweep stay articulate or become deliberately rough.

Complete colour user guide · version 0.3.0 · Apple Silicon Mac AU · macOS 12+

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Start with the part

Move from a familiar heel-to-toe cry to input-following, gesture-based or tempo-driven motion. Five voices and independent colour placement let the sweep stay articulate or become deliberately rough.

01 / PLAYER: eight original movement profiles inspired by playing gestures: Heel-Toe, Funk Scrub, Slow Cry, Double Rock, Hold / Release, Toe Drag, Quack and Broken Stutter.

02 / TEMPO LFO: sine, triangle, ramp and square.

03 / ENVELOPE: your input level drives the sweep.

04 / HEEL FREQUENCY, TOE FREQUENCY and SWEEP CURVE define the frequency map.

Inside the sound

Lynch Broken Wah · From Player To Broken

PLAYER: eight original movement profiles inspired by playing gestures: Heel-Toe, Funk Scrub, Slow Cry, Double Rock, Hold / Release, Toe Drag, Quack and Broken Stutter.

Routing / Level

Direct / Insert blends the original with the processed signal using Mix.

Presets / Your Sounds

24 original factory sounds including Init · Dry.

Automation / Controllers

Every sound value is a native host parameter.

Editor

Drag or scroll controls; Shift gives fine movement, double-click resets a dial.

Lynch Broken Wah · From Player To Broken

Start with Classic · Heel-Toe. Voice chooses Classic, Modern, Deep, Vowel or Broken. Movement chooses Manual, Envelope, Player or Tempo LFO. Manual uses the Pedal wheel directly. Moving Pedal selects Manual mode; recorded host automation does not change Movement automatically. Assign an expression pedal using Logic Controller Assignments if desired.

PLAYER: eight original movement profiles inspired by playing gestures: Heel-Toe, Funk Scrub, Slow Cry, Double Rock, Hold / Release, Toe Drag, Quack and Broken Stutter. Player Feel changes timing and excursion slightly per cycle using a deterministic sequence. The patterns are not recordings of a guitarist

or a measured pedal. With host beat callbacks, looping and seeking return to the musical grid. This also makes the variation repeatable at the same beat.

TEMPO LFO: sine, triangle, ramp and square. Tempo Sync uses Movement Beat and host tempo; Manual BPM is the fallback. With Sync OFF, Speed is free Hz; editing Speed switches Sync OFF. Manual and Envelope do not need a tempo to create motion. A manual/fallback clock restarts on reset. We do not claim project-bar alignment without host musical timing.

ENVELOPE: your input level drives the sweep. Sensitivity sets the response threshold; Attack and Release shape motion. Invert reverses automatic direction. Sweep controls movement range around the Pedal center. Player Feel acts only in Player mode. Pedal Smooth softens every motion source.

HEEL FREQUENCY, TOE FREQUENCY and SWEEP CURVE define the frequency map. Safe ordering and sample-rate limits prevent invalid filter ranges. Resonance sets the band width and cry. Classic blends a resonant band with some original; Modern includes a brighter high component; Deep lowers emphasis; Vowel adds a second resonant band; Broken uses contrasting band components. This is original filtering, not a named vintage pedal clone.

Tube adds soft asymmetric color. Distortion drives soft clipping. Dirt adds harder waveshaping and bit texture. Color Placement can be Before Wah, After Wah or Split Around Wah. Filtering runs at two substeps per input sample; heavy nonlinear color is not guaranteed alias-free. Sample Protect controls output sample peaks, not true peak. Clear Tail clears held filter/color state; it does not reset your stored Pedal or pattern settings.

Routing / Level

Direct / Insert blends the original with the processed signal using Mix. Dry audio is not colored. At Mix 0% the original passes at unity, including trim bypass. Send / Bus outputs wet only and Mix becomes wet level; our Bypass mutes that return so dry audio never doubles from an aux. Output trims wet audio. Sample Protect limits the resulting processed output sample peak, not intersample true peak. Normal bypass smoothly returns original unity on Direct. Routing and Manual BPM survive factory/User sound loads; full project state restores everything.

Sound And Approach

Apple Silicon native AUv2 for macOS 12+. Mono, mono-to-stereo and stereo. Zero added audio buffer latency. Engineering validation is separate from musical approval: audition with your own material in Logic. No production, other plugin or Logic cache is modified by the plugin.

Presets / Your Sounds

24 original factory sounds including Init · Dry. Starting Points and arrows browse them. Save… writes a User sound; User… lists your files or opens one. Every parameter is validated before loading. No audio samples are saved or required.

Automation / Controllers

Every sound value is a native host parameter. Continuous values support ramps and future buffer offsets, with deliberate control smoothing. Right-click / Control-click a control to reset or open the guide. For a hardware knob or expression pedal in Logic, first move the plugin control. Choose Logic Pro > Control Surfaces > Learn Assignment for that parameter, move your hardware control, then turn Learn Mode off. This audio insert has no MIDI Learn input. Use Logic's Controller Assignments for mappings and pickup behavior.

Editor

Drag or scroll controls; Shift gives fine movement, double-click resets a dial. Optional Hover Control spans each large wheel's complete range inside its bounds and leaves its value unchanged on entry. Escape turns it off. Gestures end on focus loss, exit and window closure. UI Size scales the editor to fit the screen. ? enables English hover help. Guide opens this text. The graph shows live wet envelope for Delay/Reverb, or live pedal position for Wah, over approximately 480 ms; it is not an editable curve. Clear Tail resets retained audio/filter state in this instance.

Install and choose the right host slot

Apple Silicon Mac, macOS 12 or later. Audio Unit only; no Intel Mac, Windows, VST3 or standalone application is included. Use an AU-compatible host and insert on an audio track, instrument audio output or bus.

Save your session before installation. Use the verified current installer and follow its installation prompts, then restart the host if the newly installed AU is not listed. Select the product under Lynch Audio Lab in the appropriate slot.

Trial and permanent licensing

Download the trial installer shown on the product page; the same installer is used for trial and purchase. No card is needed for the trial.

Open the plug-in, click Trial & Activation at the bottom and press Start trial to begin its full 14 days. Installing, opening a preset or downloading a guide does not start a new trial. Each product has its own trial. There is no subscription, automatic charge or periodic noise burst.

For a permanent purchase, use the exact Buy link on the product page. Lemon Squeezy supplies a license key in the receipt. Connect this Mac to the internet, click Trial & Activation at the bottom, paste the receipt key for this exact product and choose Activate. A permanent license allows a maximum of three computers. After successful activation, work offline.

To free a Mac's activation, connect it to the internet, open Trial & Activation and choose Deactivate this Mac. This releases that computer without renewing or resetting trial dates. Presets, project settings and updates do not renew the trial and retain settings.

The login Keychain stores trial and license-key records separately from presets. If it is locked, unlock it normally and press Refresh in Trial & Activation. Keep the system date correct.

At expiry, audio effects return latency-aligned dry audio with normal reported latency; instruments are silent; MIDI tools stop output and release held notes. Presets and project settings remain. Purchase activation restores licensed processing rather than a new trial.

Save, recall and automate

Save the host project to retain the AU instance. Use the product-specific preset operations described in the control chapters for reusable sounds. Preset files, complete project state and controller assignments can have different scopes; do not treat them as interchangeable.

When using host automation, choose an exposed sound parameter, record a short test pass and replay from before the first change. Check module enables, routing and output level. Only use product-local MIDI Learn when this manual explicitly documents it; otherwise use the host's controller-assignment workflow.

Troubleshooting and support

If the AU is missing, save your session, install the current package and restart the AU-compatible host. Check the required macOS version and Apple Silicon architecture, then review the host's plug-in manager. Do not delete a working production project to troubleshoot an insert.

For no sound or no processing, first check the correct slot, track input/output, incoming audio or MIDI, bypass/mute, module enables, mix/return amounts and trial or activation status. Test a simple documented starting point before adding a complex chain.

If the sound is too loud or distorted, reduce drive or output and inspect later inserts and the host master. Sample-peak protection does not guarantee intersample peaks. Source clipping cannot be repaired simply by lowering a later trim.

For dropouts, reduce active polyphony, unison, long returns or dense processing where applicable, or use the host's freeze/bounce workflow. A larger buffer can help scheduling; it cannot cure sustained processing overload.

For activation trouble, check the internet connection and use the key for this exact product from the Lemon Squeezy receipt. For help, contact info@lynchaudiolab.com with product version, macOS version, AU host and a short description. Never send your private license key publicly.

About this guide

Lynch Audio Lab · Music records a brighter tomorrow. This guide describes the released Audio Unit package. The control chapters preserve the supplied public operating documentation, with current-operation addenda integrated and obsolete private-test release labels removed. Images show the real product interface; some original panel lettering may predate the current package version. Original TXT documentation remains available separately.

Original Lynch designs are not measured hardware replicas or equipment-maker endorsements. Listen in context, maintain headroom and check the final deliverable after downstream processing. Support: info@lynchaudiolab.com.